

New SCEP Chairman, Jerry Burnett Plans Revision Of Structure

Jerry Burnett '64 is the new chairman of the Student Committee on Educational Policy. He was elected by Incomm Thursday, Nov. 29, to replace Al Kessler, who has left the Institute.

Burnett plans to reorganize SCEP into a "more rigid and functional body." To do this, he proposes to set up 5 subcommittees to carry out the various tasks of SCEP. These groups will deal with publicity, the feedback program, freshman advisory program, course communication, and general organization.

Burnett has invited all interested students to fill out applications for membership in SCEP. He emphasized that the Committee is eager to add new members to make it a more useful body. These applications are now available in Litchfield Lounge and must be returned by Thursday, December 13. Interviews for all applicants will be held from 4:00 to 5:30 pm in Litchfield Lounge on the 13th.

One of Burnett's main goals is the extension of the Feedback program. At present, there are two such programs, one involved with the freshman courses and another with Electrical Engineering. Burnett hopes that Feedback can be extended to other departments to establish definite lines of communication between faculty and students on course progress, objectives, and individual student problems.

Burnett defeated Steve Dryer and Herb Eagle for the SCEP post.

Astronauts Study Guidance Here



Donald Schwanz '66, James Lash '66, and Paul Trimmer '66 greet astronaut Scott Carpenter in the Instrumentation Labs. —Photo by John F. Browne

Astronauts were guests of MIT's Instrumentation Laboratory two Mondays ago.

Alan Shepard, John Glenn, Donald Slayton, and Scott Carpenter spent two days in briefings with scientists on the guidance and navigation system for the Project Apollo vehicle for putting an astronaut on the moon.

The Instrumentation Laboratory has already been awarded nearly six million dollars for designing the guidance equipment for this project.

The "Boston Globe" reported that the four were able to make suggestions to the team designing the guidance equipment. They probably urged that a greater emphasis be placed on manual controls in the space craft.

They spent much of their time with Prof. Charles Draper, head of Aeronautics and Astronautics Department, and Dr. Milton Trageser, assistant director of the In-

EC Residents Battle Trash Chute Blaze

By Ron Frashure

Shortly before midnight on Sunday, December 7, dense smoke streaming through the halls forced startled residents of the East Parallel of East Campus out into the night. A rapid search of the dorm revealed a blaze in one of the two trash chutes, in the basement of the Goodale section.

Unlike the trash chutes in the newer West Parallel, the chutes in the East Parallel do not empty into incinerators. The chutes empty into wooden janitor's carts.

Before the arrival of six Cambridge fire trucks, a hastily formed bucket brigade labored to bring the fire under control. Around 15 volunteers, hampered by a crowd of some 100 onlookers, hauled water in wastebaskets and doused the blaze.

The trash chutes are not emptied during weekends, and usually fill above the first-floor level. Firefighters pulled large quantities of paper from the chute to prevent spreading of the fire.

A similar fire in the same parallel occurred on Saturday night, December 1. The earlier fire was extinguished by house residents without fire department assistance.

The similarity of the two recent fires prompted talk of possible arson. A meeting to discuss the possibility was held by Tom Emerson, the head of E.C. Judicial Committee, Jim Dailey, the house president, and Warren Heller, the first-floor hall chairman, immediately after the fire. According to Heller, the group concluded that there is no definite indication of arson.

Alcohol Barred From Rathskeller

By Joseph Sullivan

Alcoholic beverages will not be served in the Rathskeller, the Student Center Committee has announced.

The main reason for the decision was that if beer were sold, only a small percent of undergraduates could legally sit at tables in the snack bar.

Undergraduate Assn. President Woody Bowman said the union would be a "center for the whole MIT community, but would be aimed primarily at the undergraduate. But if beer is served in the Rathskeller, those who are not undergraduates would dominate the facilities."

Rules against the purchase of alcoholic beverages by minors would be strictly enforced in the Center if beer were served.

Bowman went on to say that the "character" of the Student Center would change if the Rathskeller were "flooded" with students and others buying beer.

Private consumption of beer by activities who have their offices in the Center would be regarded with the same policy that now is in effect in Walker Memorial. The present attitude is that beer

and other beverages are forbidden in Walker.

Also, according to Jim Bradley, chairman of the Student Center Committee, a "wet" Rathskeller would take business away from the proposed snack bar in the basement of the Center. They are aimed at different markets.

According to present plans, the Rathskeller will be devoted primarily to sandwiches and snacks rather than large meals. Occasionally, a smorgasbord special will be served.

Seminars Prove Popular

Freshman Given Taste Of Research

Can microbiology solve the problem of food supply for space travelers?

Can a new kind of recording system be developed?

How can engineering concepts contribute to medical research?

These are some of the questions Tech freshmen are attempting to answer as part of their work in the Undergraduate Seminar Program, now in its second year.

This fall about 325 freshmen—more than a third of the entering class—signed up for the 42 seminars in the program. Offered as an alternative to the standard freshman electives, and staffed by faculty members on a voluntary basis, the seminars range in size from two to fifteen students.

The wide variety of topics offered includes Modern Marvelous Motion, Artistic Taste, Communist

China, American Folk Songs and Ballads, Sensory Reception, and X-Ray Diffraction.

The program is directed by Edwin R. Gilliland, head of the Department of Chemical Engineering. "It has," he said, "two primary objectives: to develop a closer association between students and faculty; and to give freshmen a chance to work on a serious

project, with freedom in planning it and responsibility in carrying it out."

Dr. Gilliland, who teaches a seminar on electrochemistry, said that during the first year the program had successfully met these objectives.

Seminars are being given in more than a dozen different departments. Examples of the work that freshmen are doing include: developing circuits to use in measurements with stroboscopic light; analyzing case studies illustrating the types of human problems faced by an administrator; studying new prediction techniques for weather forecasting; joining advanced research projects which are investigating the effects of vitamins on metabolism; following the stages a new chemical

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Burton House Toilet Bowl Demolished By Bomb

A bomb completely demolished a toilet bowl in a Burton House lavatory Saturday night.

Incomm Judcomm will meet informally tomorrow to consider the request of Dean of Students Kenneth R. Wadleigh that they investigate the case.

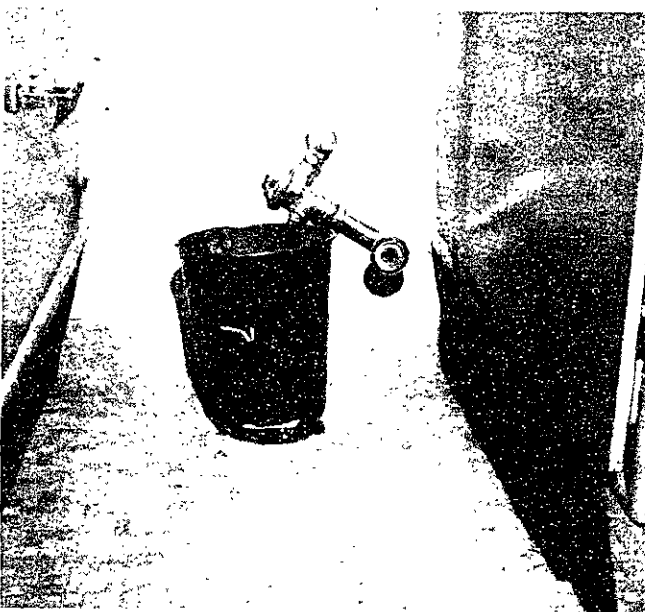
The explosion, which occurred about 10:30 p.m., reduced one toilet bowl, located in the third wing of Burton's first floor, to shrapnel-like chunks of porcelain.

Two members of Burton House Judcom, notified by a resident of the floor, discovered the pile of broken porcelain, and summoned the Campus Patrol.

About this time a witness appeared. He told the Judcom members that he had been about to enter the lavatory when the explosion occurred. "This smells like a carbon-dioxide bomb," he remarked, gave what little information he had, and left. Soon after this the Judcom members found that the shell of the bomb, which probably contained commercial gunpowder, consisted of a carbon-dioxide capsule (as used in gas guns) and immediately recalled the comment of the witness, who by now had left.

Acting on a hunch, one of the members of the Judicial Committee went over to the Delta Kappa Epsilon fraternity house next door and noticed the same witness, apparently drunk, who now gave a different name (his true identity is still unknown—he is not a Deke, however). The witness and several others were drinking beer from waxed paper cups.

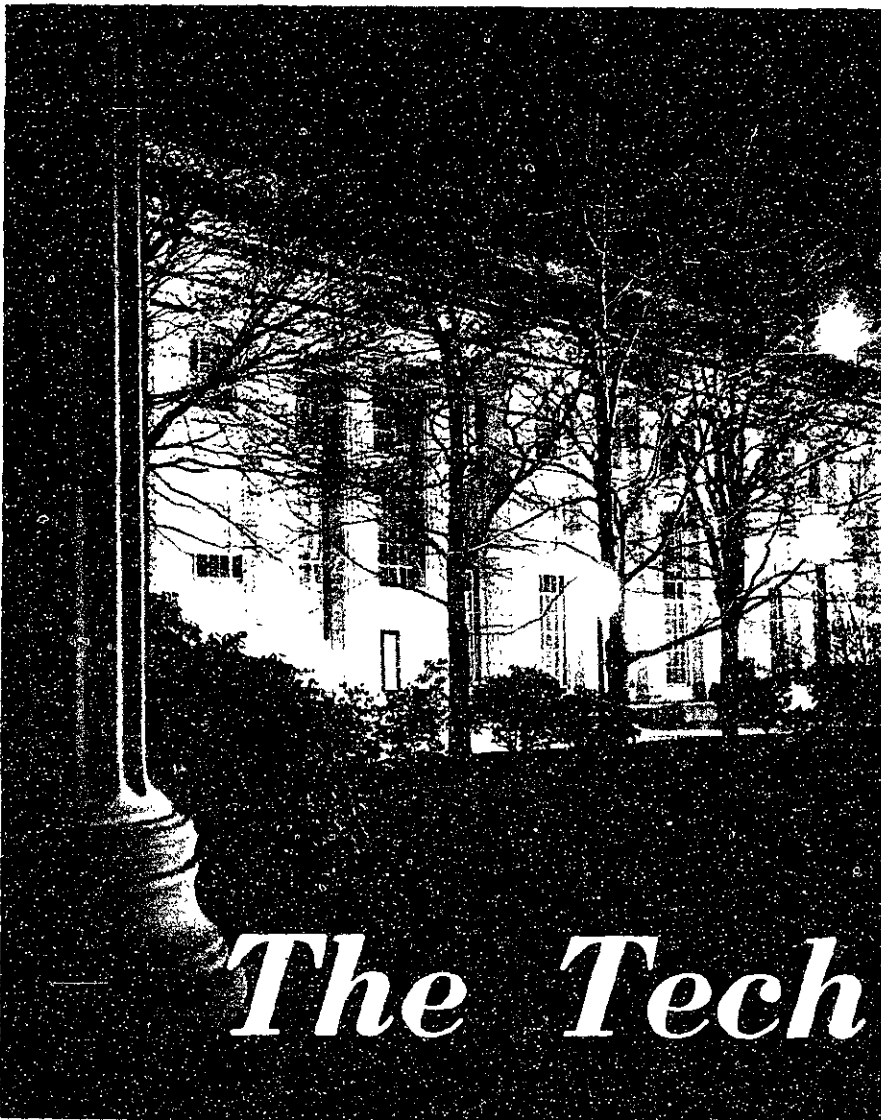
When the Judcom member returned to Burton House, another witness, also a resident of first floor Burton, appeared. He had seen two people running down the hall immediately after the explosion. These people were wearing dark blue sweat-



A prankster's bomb Saturday left only barren remains in a Burton House lavatory.

shirts with the Greek lettering, "Delta Kappa something"; one was carrying a paper cup containing what looked like a milk shake, but might have been beer.

Acting on this evidence, the Judcom members called the Campus Patrol again and returned to Deke house about 1:30 a.m. When persons concerned were confronted with the evidence, one of them admitted that he was responsible. "Throughout the whole affair," said one of the Judcom members, "we received a great deal of cooperation from the senior members of the Deke house."



The Tech

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12 Top Newsmen Coming

CBS To Discuss 1962

Twelve CBS-News correspondents from throughout the world will convene at Kresge Auditorium, December 16 at 8:00 p.m. to review and analyze "1962: Year of Crisis."

Under the chairmanship of Eric Sevareid, chief of the CBS News, New York bureau, the symposium will feature Winston Burdett, Rome and Middle East; Richard C. Hottelet, United Nations; Alexander J. Kendrick, London; Marvin Kalb, Moscow; David Schoenbaum, Washington; Bernard Kalb, Hong Kong; Peter Kalischer, Tokyo; Robert Kleiman, Paris; Blaine Littell, Africa; Daniel Schorr,

Bonn; and Charles Kuralt, Rio de Janeiro.

The discussion will focus on reports in depth from the world's "hot spots" as well as predictions about 1963. Members of the audience will also be given an opportunity to pose questions to the panel or the individual correspondents.

Co-sponsors of this program are FLUREL, the association of political science graduate students at MIT, and the World Affairs Council of Greater Boston. Members of the MIT community may secure tickets in the lobby of Building 10 December 10, 11, and 12, between 12:00 and 2:00 p.m.

Frosh Coeds Divided In Views On Dorm

By Mona Dickson

An opinion poll of the freshman coeds' reaction to the new undergraduate women's dorm showed that they expect to enjoy the dorm but are not happy about being "forced" to live there.

The coeds were asked: "If you had the choice of living in the dorm or an apartment, would you live in the dorm?" Twelve said yes, five said no, and two were undecided. Several said they couldn't wait to move in.

In answer to "Do you like the idea of being forced to live there?" six said yes and eleven no.

Objections to the dorm are not over the cost. Fourteen didn't mind the \$1100 cost, while two did, and two were undecided. Even so, eight would be willing to get fewer services—such as fewer meals—if the cost were lower, while seven would not.



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SLUTS Bomb TNT's 27-15; Rematch Scheduled

by Richard S. Russell

Assistant to the Associate Tiddlywinks Editor

The Smith Ladies Undergraduate Tiddlywinks Society (SLUTS) defeated the Tech Newspaper Tiddlywinkers (TNT) in a hard fought match at Smith last Saturday. The SLUTS scored game victories of 4-3, 6-1, 6-1, and 6-1 while the TNT team had close wins of 5-2 and 4-3 for the final match total of 27-15 in favor of the SLUTS.

From the opening tiddle, the SLUTS took the initiative, as Maryann Unger placed four winks in the elusive cup to score 4 points for her team. However her partner, Elaine Zahos, was unable to overcome the deft thumbs and unerring aims of Jason Fane and Jerry Elder of TNT, who were the second and third to deposit four winks. They scored 2 and 1 points, respectively.

Miss Zahos, playing defense, devoted most of her game to squopping (covering) TNT winks.

The defensive tactics of the SLUTS surprised the TNT men, who had anticipated a strictly offensive game. The policy of flipping from a rug was also a blow to TNT, which had practiced only on table-tops prior to the tourney.

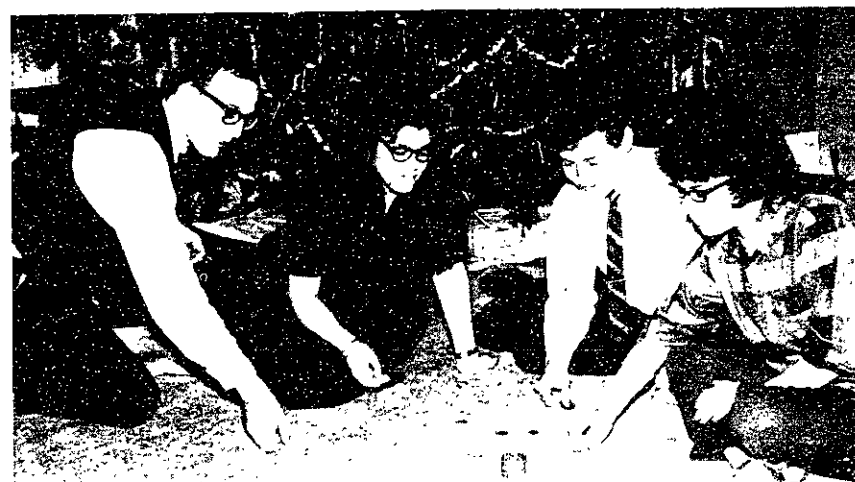
TNT did succeed in enforcing the use of its standard Milton Bradley tiddlywinks, as well as the smaller Donald Duck tiddlywinks customarily employed by the SLUTS. All agreed that the large winks provided a better game.

As the match proceeded, TNT captain Toby Zidle and teammate Ralph Grabowski demonstrated a fine under-the-rim form in out-duelling Kathy Hershey and Elaine Young for their 5-2 victory.

Defensive tactics employed by SLUTS captain V.C. (Burma Shev) Shevits and manager Mary Langford effectively contained long-shooting TNT manager Cliff Weinstein and teammate Richard Russell to hand the TNT men a 6-1 loss.

The rigorous practice of the SLUTS defense came to their aid in under-the-rim action, but could not forestall the shot of the day, a 2½-foot squidge (hole-in-one) fired by Grabowski in the first game.

On the whole, the match was characterized by clean play on both sides. The match leaves the SLUTS' season record at 1-0 and the



Battling out the final game of the SLUTS-TNT tiddlywink match are (l. to r.) Ralph Grabowski '63, Mary Langford, TNT Captain Toby Zidle '63, and Vivian "Shev" Shevitz, Captain of the SLUTS. The Smith team won the game, 6-1, and the match, 27-15. —Photo by Ralph Grabowski

TNT's at 0-1. A rematch has been scheduled for February 9 at MIT.

No word has been received at the tiddlywinks desk concerning the national invitational tournament at Columbia sponsored by the National Undergraduate Tiddlywinks Society.

Elsewhere in tiddlywinks action, an intramural game took place just outside Building 10 last Sunday. In a grudge match, the pledge class of Chi Phi, accompanied by cheering section and marching band, defeated the Chi Phi sophs 12-3. All games were won by the pledges, 4-0, 4-3 and 4-0.

The pledge coach praised the fine play of the opposition and invited challenges from other groups. As yet, no other intramural entries have been noted.

Railroaders Discuss London Transportation

Brian Martin will speak to the Railroaders Association about London Transport at 5:15 p.m., December 12, in the Spofford Room, 1-236.

London Transport, the largest transit company in the western hemisphere, moves 10,000,000 people a day. It uses 8000 buses and 4100 subway cars to do the job.

Martin, a research assistant in the Civil Engineering Department, is a native of England, and has worked in the London Transport Operations Research department.

Pilot Loses Control

Draper Tells of Aircraft Improvements

Dr. Charles Stark Draper, father of inertial navigation and head of MIT's Dept. of Aeronautics and Astronautics, spoke December 4 before the Flight Transportation Seminar. His topic was guidance and control for future flight vehicles.

Dr. Draper first touched on the problems presented by today's high speed aircraft. He stated that in the past the man in control of the vehicle was able to accomplish guidance and control on his own, but that today's higher speeds and more complex vehicle missions require automatic assistance for the pilot.

Although today's equipment is ten times as good as that of a year ago, Dr. Draper explained, engineers still feel the desire for "just one more improvement" in design. Thus equipment becomes continuously better and more complex.

Describing some of the history of aircraft control and guidance, Dr. Draper explained that in the early days of aviation, the problems faced were of control, of making the aircraft go in the desired direction, rather than of navigation and guidance. As air-

craft became more complex, navigational problems were encountered and met by radio aids to navigation and by the older methods of celestial navigation.

Higher speeds and greater needs for independence of ground stations necessitated new methods. Although radio-astronomy with fixed stars is impractical for vehicle navigation, an artificial star, such as the Transit Satellite, can provide accurate reference signals

which can be used by submarines underwater as well as surface ships and aircraft. Celestial navigation has also been automated to the extent that automatic devices to take star sightings and give positions have been built.

Dr. Draper stated that the most promising of the new systems is inertial navigation. Combining a system of three gyroscopes with digital data processing, this system is capable of accuracies within one tenth of a mile on the earth's surface. Although the first such devices were quite large, Dr. Draper explained that present models were suitable for use in missile guidance and demonstrated a half-size model of the Polaris inertial system somewhat smaller than a basketball.

Dr. Draper also stated that development is presently being done on a helicopter inertial guidance system and predicted use of inertial guidance with radio and radar in future commercial aircraft.

Knighen Suffers Injuries In Bicycle Accident

Robert Knighen '62, a first year grad student in Mathematics, suffered back and head injuries in a bicycle accident December 1.

On a bicycle excursion with his roommate, Robert Simon '62, Knighen lost control of his bike on the Concord Avenue hill in Belmont.

While following Simon coasting down the hill, he failed to negotiate a ninety degree turn and collided with a stone wall fence on the other side of the roadway. He incurred two fractured vertebrae and a skull fracture. One of the cranial plates was displaced inward and had to be restored by surgery.

Knighen is presently convalescing in Mt. Auburn Hospital and will be transferred to the Homberg Infirmary in a few days where he will remain two to three weeks.

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Avco Head Discusses MHD

By James Veilleux

Last week's guest on Channel 2's "MIT Science Reporter" was Dr. Arthur G. Kantrowitz, Director of Avco-Everett Research Laboratory in Everett, Mass. In the program "MHD Mark II," Dr. Kantrowitz discussed his company's attempts to produce electricity with hot plasma gas.

The device now being developed at Avco for this purpose is the MHD (magnetohydrodynamic) generator, which produces direct current from hot plasma gases in

a magnetic field. Conventional fuels are used to heat the plasma, and part of the current produced is used by the electromagnet. The operational model shown on the program was capable of producing 1500 kilowatts.

The chief advantage of the MHD generator over conventional methods is that it converts heat directly to electricity without the complex of moving mechanical parts required by a steam generator. At its best, the steam generator uses only 40% of the heat energy which its fuel provides, simply because the materials used in construction cannot withstand temperatures in excess of 1100 degrees Fahrenheit. MHD, on the other hand, will have at least 50% heat conversion. In theory, efficiency could be much higher.

Dr. Kantrowitz predicts that the generator will be used commercially within the decade. Many power companies, eager to cut down waste in consumption of conventional fuels, are deeply interested in Avco's project, he said.

Looking farther into the future, the Research Director said that MHD conversion would be an ideal method for harnessing nuclear energy.

Unlike conventional steam converters, it could employ nearly all of the enormous amount of heat energy produced in an atomic reactor. This would be a giant step toward making nuclear power practical for commercial use.

Santa Claus Visits Senior House Party



Professor Jerome Lettvin of the Biology Department as he appeared playing Santa Claus at the annual Senior House Christmas Party held Saturday night in the Bush room. Santa Lettvin passed out presents to the girls and faculty members attending.

—Photo by John Eulenberg

Apollo Mooncraft

Instrumentation Laboratory To Design Guidance System

Three Boston institutions are presently pursuing the rigorous development of the navigational and guidance systems for the Apollo mooncraft. An estimated \$25 million in contracts has been already awarded to MIT's Instrumentation Laboratory for design of the control system, to the Raytheon Corp. for the system's computer, and to the AC Spark Plug Corp. for construction and integration of the system. Before launching of the Apollo spacecraft in 1970, the total contracts may exceed \$125 million as part of this \$40 billion United States space probe.

The requirements for the project are severe, for the system must be able to operate for weeks rather than for hours as has been the case of the early Mercury Project. The proposed system must be extremely light since the Saturn booster must deliver a thrust of 1,000 pounds for every pound of payload.

The first phase of the flight will place the spacecraft in an 18,000 mile per hour orbit around the earth. At this point the guidance system aboard the craft will take over and maneuver the craft into proper position for the earth to moon trajectory. The three Apollo spacemen will control the craft and the computer which will determine the optimum moment for the additional propulsion to guide the craft toward the moon. The propulsion must be of the exact magnitude so that the craft will reach the gravitational field of the moon at the proper moment.

As the craft approaches the moon it will be slowed to a velocity of 2,000 miles per hour and placed in a lunar orbit. At this point the on-board computers will perform another tedious calculation to determine the moment at which the separate exploratory vehicle should be released and the moment it should remake contact with the orbiting mother ship. The slightest error at this point could send spacemen off on an endless journey in space.

The return propulsion will be controlled by the spacemen and the computers, for the safe return of the men and the vehicle will depend on a precise trajectory. The spacecraft must enter the earth's atmosphere at a proper angle so as to utilize the life-saving heat shield. Equally as important will be ability of the system to place the craft in a prescribed recovery zone. A minor error in calculations could expand the search for the return vehicle over millions of square miles of ocean.

The challenge of placing three men on the moon must first be met by the development of this vital system here in Boston. In 1970 Boston engineers may be able to assume credit for guiding the Saturn Rocket and its Apollo mooncraft — a vehicle system weighing more than 6 million pounds and standing a height of 355 feet — safely on a voyage to the surface of the moon and back to the earth.

Radiation Belt Electron Lifetimes Topic Of COMPASS Seminar

Lifetimes of radiation belt electrons was the subject of last week's Compass Seminar. The effects of the July 9, 400-km. "Starfish" nuclear explosion were discussed in a report given by Dr. Wilmot Hess of the Goddard Space Flight Center's Theoretical Division.

Starting with his own calculations on the rate of the radiation belt electron leakage to the atmosphere, Dr. Hess followed through with a detailed discussion of the measurements of the electrons densities and fluxes in the various regions of the belt. Dr. Hess calculated a mean life of 100 years for the outer belt.

The electrons in the radiation belt are contained in regions of nearly constant B field where they travel in helices oriented along the magnetic lines of force. These lines converge near the magnetic poles and at some critical point for each electron cause it to be reflected.

At these so-called mirror points, the electrons dip most deeply into the atmosphere and are scattered. All such scatterings result in a lowering of the mirror point on the following transit.

The means to confirm any theory of electron loss rate is achieved by introducing transients in the electron flux. A nuclear explosion does this effectively, by adding to the high energy flux.

The usefulness of the experiment for this problem is reduced by a lack of information in the higher equatorial zone before the explosion.

One of the means of studying this transient is via the synchrotron radiation which can be measured at the ground. A 10,000 dipole array near the magnetic equator in Peru is operated by the National Bureau of Standards.

Frosh Seminars Prove Popular

(Continued from Page 1)

goes through from test tube synthesis to profitable sale; and discussing the development of some of the basic ideas in the history of science.

There are many purposes for offering seminars, and many ideas of what they should accomplish. Some of these are:

Wanting a freshman to have a real understanding of what research is.

Wanting students to have a deeper understanding of some very fundamental scientific concepts in physics or chemistry.

Wanting to make it clear to a freshman why something should be learned. By confronting him with a complex problem, he has to learn new things to move ahead, the need to learn becomes apparent, and the incentive becomes real.

Wanting to demonstrate that a "true life" engineering problem is often exceedingly complex, with sociological and economic impli-

cations as well as technical ones.

About 57% of the students in the program this fall took seminars in engineering (where 25 were offered, and 22% took them in science (where eight were offered). Most of the remainder were divided between industrial management and humanities.

"The program is still very much in the experimental stage," Dr. Gilliland said, "and no decision has yet been made to incorporate it as a permanent part of our freshman year. Many questions have been raised which must be answered, such as: Is this a better use of faculty and student time than regular subjects? Is it a more expensive method of education? Should it be extended to the sophomore or junior years? Should it be continued as a voluntary job for the faculty?"

"But we feel that the program holds substantial promise and we plan to offer it again during the coming academic year."

Inside Inscomm

Inscomm May Intervene In Frosh Quiz Book Question

By Woody Bowman

Unless there is a mutual agreement between the Walker Staff and the Freshman Council before tomorrow night, the Institute Committee will have to decide who will be the sole agent for the publishing of the Freshman Quiz Book next term.

The Council's objectives, if I understand them correctly, are to place a quiz book in the hands of as many freshmen as possible and keep the price low while producing a high quality item. The Walker Staff's objectives I feel are the same. However the freshmen wish to just about break even, while Walker hopes to pay for some A-Ball expenses.

I think that the question of how much profit is made and what it is used for is irrelevant to the decision at hand. It is really a

question of who can publish the best book for the least price. Neither group has an intrinsic right to publish the book if they desire.

On the other hand the Freshman Council does have every right to act as agent for the class to insure that the book is of the best obtainable quality for the price. If the Council can achieve this end by publishing it themselves, then they, of course, should be given exclusive right. If they cannot, Walker would be in a position of paying close attention to the wishes of the freshman class through the Council.

Both interests could be served well by allowing the Walker Staff to publish if the Council were given some censor privileges, with a mutual price agreement. I feel that it is unfortunate that this issue should come before InsComm because the end result will be artificial restrictions imposed upon both groups.



AWS May Offer Dancing



Judith Jacobs (left), a dance instructor sponsored by the Association of Women Students, leads a class of coeds including Nita Tonso (center) and Barbara Pollack (right) in modern dance. The AWS hopes to find enough support so that the class can be offered on a regular basis.

—Photo by Conrad Grundlner

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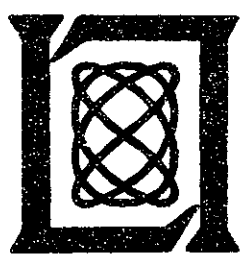
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Women's Dorm

Starting with the class of 1966, all unmarried coeds will be compelled to live in the new Women's Dormitory. This marks a sharp change in MIT policy.

Previously, all students beyond their freshman year, have had complete freedom in choosing their living accommodations. Even granting that special circumstances may have made the rule necessary, it has three important disadvantages. These are:

—it arbitrarily limits the number of women undergraduates at MIT.

—compulsory room and board charges of \$1100 per year places an unnecessary financial burden on many of the girls.

—it restricts the girls' education in living to one very narrow experience.

Beginning with the class of 1967, the number of freshman girls will be increased to about 35.

Several girls who are living in Bexley or apartments say that room, meals, utilities, and linens cost them roughly \$700 per year. While it is true that the new dorm will be more luxurious than coeds present housing many girls either do not have the extra \$400, or would prefer to spend it in other ways, (for example, a summer in Europe). Shouldn't they have this choice?

So long as the new Women's Dormitory may be kept full, all coeds who have completed their freshman year should have freedom to live where they please. If too small a proportion of women wish to live in the new dorm to keep it full, the number of girls at MIT might be increased to fill the gap. Total capacity of the dorm is only 116 girls.

Although dormitory life has much in its favor, it offers only one type of growth in living experience. Many girls will find more valuable the practice they get in the domestic skills required to make an apartment into a home than four years of living in the sterile environment of a dormitory.

Some girls find that a dormitory is not the optimum place for study. They complain it is noisy or that its diversions keep them from their academic work. Others may prefer not to live on campus: Some would like the privacy of having their own room or apartment. Others may find it more satisfying to live with a cross-section of people and become a part of a more normal community.

The plan and operation of the new dorm should be more flexible: meals, linens, and maid service should be put on an optional basis. Girls who do not want these luxuries should have the option to save their money and do without. The variety of accommodations should be made more varied so girls may live not only in

single and double rooms, but also in suites of 3, 4, and larger groups of girls.

We feel that upperclass women should not be forced to live in the Women's Dormitory and operation of the dorm should not be rigid.

Open Door

At some point in his undergraduate career, every student at MIT has deplored the lack of advice and information upon which he has based a scheduling decision.

It is obvious to most registration officers that the pressures of registration day are not conducive to giving well thought out advice to an individual. Many of these people have fallen into a "look at the grades and sign the card" rut which is almost as annoying as it is useless. If this is the sole purpose of the registration officer, it is hardly worth his time or the student's.

Registration day is now devoted almost exclusively to satisfying the Registrar. We would like to see an equal amount of time set aside specifically for the purpose of program counselling. This should be a day either preceding or following registration day during which faculty members would be free to answer student questions and offer advice. It should not be limited to registration officers and their advisees. Every member of the faculty involved in teaching undergraduates should have a blank appointment book and an open office door.

The Decision

Each year it is becoming more obvious that MIT is competing with the major Ivy League schools for new freshmen. At long last an effort is being made to convince the freshman who has been offered admission that MIT has what he wants.

As it stands now, the high school senior who has been offered admission to several schools has to judge MIT on the basis of "This is MIT," the so-called undergraduate catalog which includes little or no information on advanced courses and living conditions. Until he indicates that MIT is his choice, the prospective freshman is left in a kind of limbo about opportunities for advanced standing, fraternities and dormitories, sports and activities, and the many other factors which can influence his decision.

Both "This is MIT" and the Educational Council, which tries to interview all prospective candidates, are lacking in the ability to advise the freshman who wants to know whether he can take advanced calculus in his freshman year more than he wants to know what the freshman electives are. The list of courses mentioned in "This is MIT" offers very little perspective on the academic opportunities available at MIT.

In order to compete for highly qualified men with schools such as Harvard and Yale, MIT's recruiting program is going to have to catch up with the candidates interests.

"This is MIT" is being revised in an effort to do some of this catching up. In addition, the personal recruiting and counselling program is being stepped up with the aid of some interested undergraduates. We hope especially that the revision of "This is MIT" will eliminate the frustrations of the prospective freshman who writes for a catalogue and is sent this meager representation of academic and extracurricular MIT. We hope also that extracurricular student groups, including living groups, will stop neglecting the freshman who is still making up his mind about MIT.

Educational Washington

School Integration Report Published

(Washington)—The U.S. Civil Rights Commission reports school integration in the south may be speeded up by recent Federal Court decisions.

In a two-volume report called "Civil Rights, U.S.A.—Public Schools," released this week, the Commission says the south's chief legal bulwark against school desegregation—the pupil placement system—may be crumbling.

The report also showed:

—delaying tactics, including "grade-a-year" desegregation plans by local school boards are no longer widely accepted.

—some Federal Courts no longer require that negroes must go individually through a maze of state-level red tape before suing for integration.

The 532-page report deals with Kentucky, North Carolina, Tennessee, Virginia and the cities of Philadelphia, Chicago, St. Louis, Highland Park, Mich., and New Rochelle, N. Y.

One section of the report shows that northern negroes are facing new problems of law and education in their fight against de facto segregation.

The main legal question in northern and western cities, the report said, is whether school boards have the right to deal with school segregation brought about by negro ghetto-living.

In an opening statement on the school situation in the south, the report said the trend of Federal Court decisions has been to strike down "unconscionable" delaying tactics by local school boards.

The first setback for the previously accepted pupil placement plan was noted in a Federal Court decision involving Memphis, Tenn. The Sixth Circuit Court of Appeals held that Memphis could not use the Tennessee Pupil Placement Act as a desegregation plan.

"The Pupil Placement Acts have been held invalid as desegregation plans because they manifested a continued policy of segregation even though they did not expressly incorporate race as a factor in pupil assignment," the report said.

"If this is a trend, it threatens the last strong artifice of segregation," the report added.

However, the report added that similar acts have been held valid in the Fourth and Eighth Circuit Courts covering Virginia, the Carolinas, and Arkansas.

"Perhaps the most significant developments," the report said, "are steps taken by the Fourth Circuit Court of Appeals to relax re-

Kibitzer

By MICHAEL LINAH

NORTH
 ♠ A 3 2
 ♥ A K 8 7
 ♦ 9 7 6 2
 ♣ A K 9

WEST
 ♠ J 10 9 8
 ♥ 9 5 4 2
 ♦ 10 5 4
 ♣ Q J

EAST
 ♠ 7 5
 ♥ 10 3
 ♦ A K Q J 10
 ♣ 10 7 5 4

SOUTH
 ♠ K Q 6 4
 ♥ Q J 6
 ♦ 3
 ♣ 8 6 3 2

Neither Side Vulnerable.
 South dealt.

SOUTH WEST NORTH EAST
 pass pass 1 ♣ 1 ♦
 1 ♠ pass 4 ♠ all pass
 West led the jack of spades.

The quest for overtricks is an essential part of duplicate. It leads to many otherwise unnecessary risks to the contract, but this makes the game what it is. Today's hand played at duplicate is a good example of this:

South found himself in a four spade contract. He noticed that most pairs would play at either three notrump or four hearts. He also noted that each of these contracts would either be down one or making on the nose, but that it was possible to make five spades. However it required planning from the first trick.

South won the opening spade

lead with the King in his hand, and lead a diamond. East won and returned another spade. South won with the Queen, and entered dummy with a club. He now ruffed a diamond with the four of spades, re-entered dummy with a club, and ruffed a diamond with the six of spades.

He now played four rounds of hearts, which West had to follow to. Thus far declarer had won two spade tricks, two diamond ruffs, two club tricks, and four heart tricks. The Ace of spades was his eleventh trick. Five spades making, for a top board.

Planning is important in duplicate. Note that if South had won either of the spade leads with the Ace, he would not have made the overtrick, although he still would have made four.

PUZZLER

You South hold: ♠ 7 2, ♥ 9 5, ♦ 8 4, ♣ Q J 10 9 7 5 2

Your partner opens One no-trump (16-18pts) what do you bid? Answer: Two clubs. This is Stayman, and your partner will respond to show his majors, but you will rebid three clubs, which he is obliged to pass. This must be a better spot than one no-trump.

This weeks hand:

You South hold: ♠ A K Q 10 8 7 6, ♥ void, ♦ 8 7 6, ♣ 9 5 4

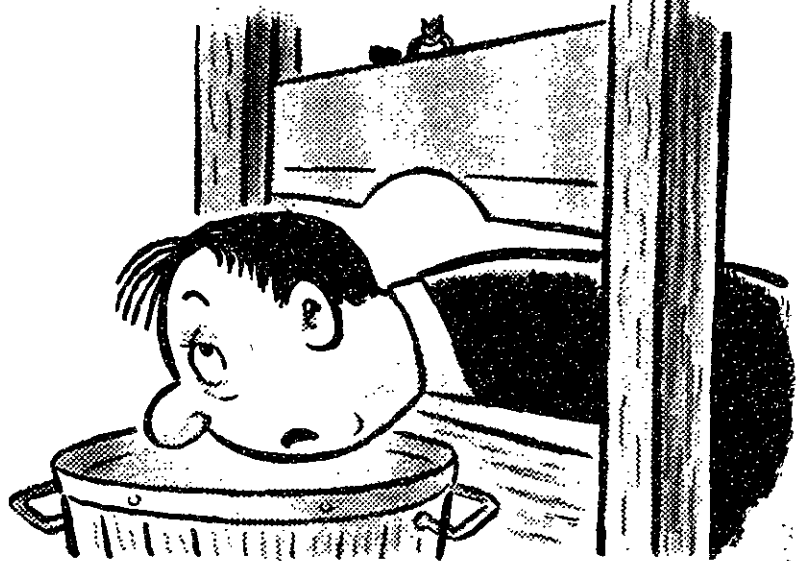
You are dealer, both sides vulnerable, what do you bid?



PEANUTS appears daily and Sunday in the Boston Herald.

DOING IT THE HARD WAY by hoff

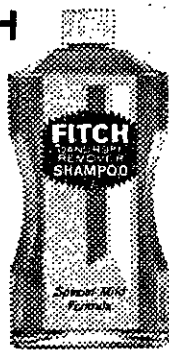
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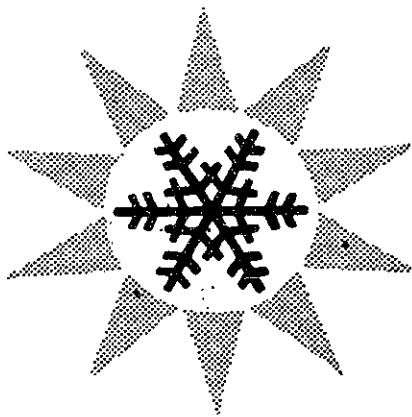
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Integration Report Out

(Continued from Page 4)

quirements that negroes must exhaust state administrative remedies before seeking desegregation in a Federal Court."

The report noted also that the Fourth Circuit Court this year allowed negroes in Lynchburg and Roanoke, Va., to bring class desegregation suits.

This means that if they win their case, other negro children in their school system "do not have to follow individually the labyrinth of administrative steps in the Pupil Placement Act."

This position has also been taken by the Fifth and Sixth Circuit Courts, the report added.

Citing an Appellate Court decision that Knoxville, Tenn., did not show good faith in presenting a grade-a-year plan and must therefore integrate more rapidly, the study said: "The Knoxville case and several others decided in 1962 give rise to an inference that perhaps the door is closing on grade-a-year plans."

Halaby Will Speak On Airport Administration

Najeeb E. Halaby, administrator of the Federal Aviation Administration, will address a Flight Transportation Seminar in Room 35-225, at 4:00 p.m. tomorrow.

Halaby will discuss the work of the FAA in establishing and enforcing operating and safety standards for civilian aircraft and airports in the United States, including the nation's regularly scheduled airlines.

Mr. Halaby, who is both an attorney and a pilot, was graduated from Stanford University in 1937 and from the Yale University Law School in 1940. He practiced law in California until 1942 when he became a test pilot for the Lockheed Aircraft Corp.

In 1943, he became a naval aviator. Following the war, he served in the Economic Coopera-

tion Administration, the Department of State and the Department of Defense. From 1956 to 1959, he was an executive of Servomechanisms, Inc., of El Segundo, California.

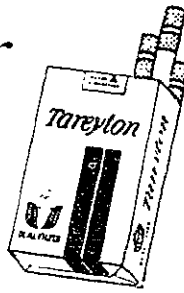
159 Of 316 Votes Favor EC Secession

The East Campus House Committee held a referendum last Thursday to determine whether house residents would back its bid to secede from Dormitory Council if Dormcon did not adopt constitutional amendments proposed by East Campus.

Of 316 (75.4%) house residents voting, 159 (50.3%) voted in favor of secession, and 135 (42.7%) voted against it. 22 voted "neither" or were disqualified.



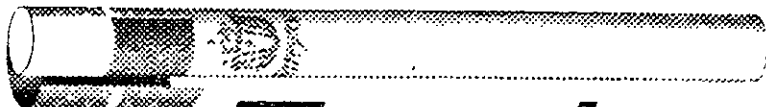
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movie schedule

Wed., Dec. 12, through Tues., Dec. 18 (Unless otherwise stated, the Sunday schedule is the same as the weekday schedule except no movies are shown before 1 p.m.)

ASTOR — "The Longest Day," 8:15; Wed., Sat., Sun., 2:30; Sun., 7:30.

BEACON HILL — "Phaedra," 9:30, 11:30, 1:30, 3:30, 5:30, 7:30, 9:30.

BOSTON CINERAMA — "Wonderful World of the Brothers Grimm," evenings 8:30, except Sun. 8:15; matinees Wed. 2:30, Thurs. 1:30 and 5, Fri. 2:30, Sat. and Sun. 1:30 and 5:00.

BRATTLE — "The Bridge," 5:30, 7:30, 9:30, Sat. mat., 3:30; starting Sun., "Tight Little Island," 6:30, 7:30, 9:30.

CAPRI — "Boccaccio 70," "Temptations of Dr. Antonio," 10:00, 12:45, 3:30, 6:15, 8:00, Sun. 1:00, 3:45, 6:30, 9:15, "The Job," 10:55, 1:40, 4:25, 7:10, 9:55, Sun., 1:55, 4:40, 7:25, 10:10, "The Raffel," 11:50, 2:35, 5:20, 8:05, 10:50, Sun., 2:50, 5:35, 8:20, 11:05.

EXETER — "Trial and Error," 2:20, 4:10, 6:00, 7:40, 9:25.

FINE ARTS — "Gervaise," 5:00, 8:30; "The Mark," 7:00, 10:10.

GARY — "Barabbas," evenings, 8:30, mat. Wed. 2:30; Sat., Sun., 2:30, 5:30.

HARVARD SQUARE — Today, "What Ever Happened To Baby Jane?" 2:05, 4:30, 7:00, 9:20; starting Thurs., "The Chapman Report," 1:45, 5:25, 9:15, and "Watch Your Stern," 4:00, 7:45.

KEITH MEMORIAL — "Lover Come Back," 9:30, 1:34, 5:38, 9:42, Sun., 1:00, 5:04, 9:08; "Come September," 1:39, 4:43, 7:47, Sun., 3:09, 7:14.

MAVERLOW — "Whatever Happened to Baby Jane?" 10:15, 12:55, 3:35, 6:15, 7:55, Sun., 1:00, 3:30, 6:10, 8:50.

MUSIC HALL — "Manchurian Candidate," 10:15, 12:34, 2:53, 5:12, 7:31, 9:50; Sun., 1:00, 3:13, 5:27, 7:59, 9:52.

MIT — Friday, "The White Sheik," Room 10-250, 6:30, 9:00; Saturday, "The Dark at the Top of the Stairs," Room 10-250, 5:15, 7:30, 9:45.

PARAMOUNT — "Fancy Pants," 11:20, 12:45, 6:15, 9:40; "The Seven Little Foys," 9:40, 1:05, 4:30, 8:00.

PARK SQUARE CINEMA — "Divorce Italian Style," 1:30, 5:30, 7:30, 9:30.

SAXON — "Mudny on the Bounty," Eves., 8:15, mat. Wed., Sat., Sun., 2:15.

WELLESLEY COMMUNITY PLAYHOUSE — Dec. 12-15, "Whatever Happened to Baby Jane," eves., 7:45, mats., Wed., Sat., 2:00.

UPTOWN — "Whatever Happened to Baby Jane," 12:55, 5:00, 9:10, Sun., 1:00, 5:00, 9:15; "No Time for Sergeants," 11:00, 3:05, 7:15, Sun., 3:05, 7:15.

Theatre Schedule

ACTORS PLAYHOUSE — "American Blues," 8:00.

BOSTON UNIVERSITY THEATRE — "The Private Life of the Master Race," Thurs. through Sat., 8:30.

CHARLES PLAYHOUSE — "Hedda Gabler," Tues.-Fri., 8:30, Sat., 5:30, 9:00, Sun., 3:00, 7:30.

COLONIAL — "My Fair Lady," 8:30, mats. Wed., Sat., 2:30.

EMAGE — Starting Dec. 13, "The Lady's Not for Burning," 8:30.

LOEB DRAMA CENTER — "Through Dec. 15, "Love for Love," 8:30.

LOEB EXPERIMENTAL THEATRE — "A Pound on Demand," Dec. 13-15, 8:30.

SHUBERT — "I Can Get It for You Wholesale," Sun.-Thurs., 8:30; Fri.-Sat., 7:00, 9:45, Dec. 12-15.

WILBUR — "The Milk Man Doesn't Stop Here Anymore," 8:30, mats. Thurs., 2:15, Sat., 2:30.

Christmas Assembly To Replace Classes

Classes will be suspended from 11:00 a.m. to 12:00 noon, Wednesday, December 19 for the annual MIT Christmas Convocation in Kresge Auditorium.

President Stratton will be one of the speakers at the ceremony. It is open to the public; refreshments will be served.

theatre . . .

'Love For Love' Opens At Loeb Center

by Charles Foster Ford

The old pro's have taken over Loeb Drama Center for this week, and are presenting a fine, funny crowd-pleasing play. Congreve's "Love for Love" opened to cheers and applause so long and enthusiastic that the company ran out of planned curtain-calls and had to improvise. This may be the biggest success in Loeb history.

This is a Restoration Comedy, which means the major subject of the play is immorality (mostly sexual), and its main method brittle and witty repartee. There isn't a female onstage, married or no, whose character is not at least suspect, if not obviously spotted. The twin skewers of seduction and money (usually quite closely linked) hold together a plot much too complicated to recount. But the plot is a mere excuse for riotous incidents: At the end of act one, Tattle (Paul Schmidt) introduces a young country-girl (Joanna Vogel) to the city manners of courtship. Later, the widow Frail (Lynn Milgrim) attempts first to seduce, then to spurn, the heir of a large fortune. Tattle, but a few hours married, tells one of his friends "If thou canst not find a wife, I should gladly lend thee mine." Restoration comedy is a seventeenth century equivalent of PLAYBOY, done with much more wit and gusto.

The cast for this play has the maturity and experience to perform with vigor rather than embarrassment. Sam Abbott (Sir Sampson) plays a gouty old satyr who is trying to swindle his own eldest son out of his inheritance. He even manages to propose to his son's fiancée. As his friend and advisor, Don Lyons (Foresight) does a lovely bit as an octogenarian astrologer. ("Discover, if you can, who is in conjunction with thy wife.")

Peter Haskell (Valentine) plays the unfortunate son . . . too honest and too in love with Foresight's daughter Angelica to withstand his roguish father. Rather than sign away his inheritance, he feigns a madness more satiric than insane. Kendra Stearns (Angelica) toys with him a while ("You are mad, but don't know it.") before rewarding his faithful honesty.

These and other faces are quite

LOVE FOR LOVE: A Comedy, by William Congreve; Produced by Tom Vachon; Directed by Robert Chapman; Settings Designed by Don Soule; Costumes by Olga Liepmann; Lighting by John Warburg. At the Loeb Drama Center, Harvard, through Saturday.

CAST	
Valentine	Peter Haskell
Jeremy	Harry Smith
Scandal	Chris Rawson
Traplant	Greg Levin
Snip	Brian Bont
Tattle	Paul Schmidt
Steward	Bill McKinney
Mrs. Frail	Lynn Milgrim
Foresight	Don Lyons
Nurse	Raye Bush
Angelica	Kendra Z. Stearns
Sir Sampson	Sam Abbott
Mrs. Foresight	Joanne Koch
Miss Prue	Joanna Vogel
Ben	Kellogg Fairbank
Jenny	Kate Colborn
Buckram	Tom Vachon

familiar on the Harvard stage, for this production has the advantage of many experienced hands. Don Soule's intricate set is perhaps the best of several he has done at Loeb; the costumes and wigs by Olga Liepmann are dazzling; and Robert Chapman, resident director at Loeb, has turned the play into a long exercise in laugh-getting. Even Tom Vachon,

the student producer, is an old hand at this job. Vachon not only produced this show, but finds time to do a short walk-on as Buckram, the timid lawyer.

But not all are familiar faces. Joanna Vogel (Miss Pru) and Paul Schmidt (Tattle), though new to this stage, close the first act with a comic seduction scene that is shockingly frank and screamingly funny. The mirror-image of this successful seduction is seen in act two, when Kellogg Fairbank (Ben) proposes to Miss Vogel's Pru, and rather than winning her insults her at every turn. Ben is his father's favorite, and in line for that disputed inheritance. But years at sea have given him a rough and rowdy frankness that is no match for Tattle's insincere manners.

There are more large, well-played parts here than can be mentioned without tedium. "Love for Love" is a fine, funny, filthy play, and if tickets can be found it should be seen.

music at mit...

Joint Concert Performed By Radcliffe And MIT

By Dennis Johnson

Approximately 700 people attended the concert of the Radcliffe Choral Society and the MIT Glee Club on Sunday, December 2. This was a contrast to the MIT Symphony concert on the previous evening which saw an absolutely full house.

The program included fourteen selections of which the first seven were performed by Radcliffe. The first four numbers, written near the end of the sixteenth century, were sung with good technical proficiency, though the vocal quality was conspicuously lacking in vibrance. The next three compositions of Dvorak, Stravinsky and Kodaly were executed with comparable technique, but with much more brilliance and life to the vocal sound. Miss Sandra E. Jarrett is to be complimented on her technical agility with the soprano solos in the works of Stravinsky and Kodaly. Miss Margaret A. Gram, soprano, and Miss Caroline Collins, alto, gave capable assistance to Miss Jarrett in the Stravinsky. Although Dr. Forbes' direction was extremely clear, with good tempos and dynamic interpretation, the sound of the Radcliffe group was only good, and not outstanding.

The MIT Glee Club, on the other hand, had great vibrance of sound in both their sixteenth century as well as twentieth century works. The MIT faults were virtually complementary to those of the Radcliffe group! Balance problems particularly regarding the tenor sections were obvious throughout the entire MIT performance. The compositions of Schubert, Barber, and Thompson suffered much less satisfactory performances than the previous

three compositions. The Schubert "Nachtgesang in Walde," which was originally written including four French Horns, would have been much more adeptly performed without! Although the brass players exhibited a greater proficiency with the Barber, the vocalists did not. In short, these last three compositions showed a distressing lack of rehearsal, both individually and collectively. The MIT groups have an awfully unpleasant habit of sustaining wrong notes!

The Bach Cantata, "Gott der Herr ist Sonn und Schild," was indeed the highlight of the entire performance. Featuring the combined vocal groups, a largely professional orchestra, and two soloists, this work was performed with a very pleasant sound. Under the able direction of Dr. Forbes, tempo changes were authoritative and entrances sure. The alto soloist, Betty Lou Austin, and the bass soloist, Irving F. Pearson, are both gifted with extremely pleasant voices and sang their parts with good taste and technique.

Ancient Christmas Music To Be Presented Friday

A concert of ancient music for Christmas will be presented by the Department of Humanities, Friday, at 4:00 p.m., in the Kresge Little Theatre.

The music will be from the thirteenth through eighteenth centuries, played on instruments of that time, including the new harpsichord.

Admission will be free.

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Starting Thursday

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1:45, 5:25, 9:15

"Watch Your Stern"
4:00, 7:45

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Starting Sunday
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Production Sloppy For Williams Play

By David G. Johnson

Tennessee Williams' new play, "The Milk Train Doesn't Stop Here Anymore," opened Monday night at the Wilbur Theatre. The action does not take place in a rural community, but rather, in an oceanside Italian villa where an aging socialite is writing her memoirs — and planning toward future memories, even though she is dying.

The audience is told many times in the first few minutes that the memoirs of Flora Goforth are being produced, and produced too slowly to meet the London and New York deadlines. The audience is thus forewarned that this is not one of Tennessee Williams' better plays. His characters continually spout thinly veiled philosophy or remind the audience what has happened. There is the typical pre-occupation with death and aggregation of crude and cynical has-beens. Only one per-

THE MILK TRAIN DOESN'T STOP HERE ANYMORE, by Tennessee Williams; produced by Roger L. Stevens; directed by Herbert Machiz; settings and lighting by Jo Mielziner; costumes by Peter Hall and Fred Voelpel; music by Paul Bowles; associate producers, Lyn Austin and Victor Samrock; Wilbur Theatre.

The Cast
Flora Goforth Hermione Baddeley
Francis Black Ann Williams
Giulio Clyde Ventura
Chris Flanders Paul Roebeling
Angelina Maria Tucci
Rudy Bruce Gibson
Vera Ridgeway Condotti
..... Mildred Dunnock

son is a "good guy" among the "bad guys." This incorruptible is the secretary and girl Friday, Francis Black.

One reassuring fact is that Williams has included occasional lines worth remembering. Examples: "All cruel people regard themselves as paragons of frankness." "When you're writing your memoirs, it seems to increase your interest in the future." However, the script is inconsistent. It ranges from very polished to transparent and childish.

The cast lacks consistency. Ann Williams and Mildred Dunnock are, generally good. Bruce Gibson should have remained a stunt man. Everyone else gives a variable level of credibility, especially Hermoine Baddeley. Her portrayal is great at times, but, at other times, it is less than amateur. Miss Baddeley often drops props. This may be good characterization of a senile shrew with neuralgia, but two losses of her wig and

a resultant muffed line would not appear planned.

Flora Goforth is a composite of a few other Williams' characters. She remembers a dead loved one in the same adoring way as Mrs. Venable remembered her son, Sebastian, in "Suddenly Last Summer." Her view of sex and her inter-personal relations correspond to those of Maggie and Big Daddy, respectively, in "Cat on a Hot Tin Roof."

Mildred Dunnock plays the role of an acquaintance whom Flora calls a witch. This witch has had nearly as many husbands as Flora, and is more than equal at making catty remarks. Their scene between the "witch" and the "bitch" brought many laughs from the audience, probably more because of the unexpected comedy than because of wit. Many props, parts of costumes, and bits of paper are dropped in this scene. Those bits of paper could have been notes. Some scenes appeared to have been acted without a confidence in lines and movement.

The major flaw is production. Very little goes well with the setting, lighting, and sound. The set reveals backdrop curtains when the one door is opened. The imaginary walls of the guest room have doors everywhere, or at least the characters locate them at their own convenience. The set adjustments for Act II are made during a partial blackout in the last scene of Act I. Some changes were necessary, but many non-relevant ones were made then, instead of between acts.

When characters on one side of the stage were looking at the other side with binoculars, the full stage was lighted, instead of using spots, to give the impression of distance. The cast also managed to speak lines from one side to the other at this same time, although a character moving from a side could — supposedly — not be heard where he was moving to, until convenient. When the script referred to a full moon, the stage was dark. Off-stage lines were spoken (maybe read) into a microphone which gave a very hollow sound.

Perhaps the production difficulties will be ironed out, but not likely. The task is too great. Unless you are especially interested in watching an elderly woman make a futile effort to seduce a young man, you should spend your money elsewhere.

WTBS Schedule

Wednesday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—The John Browning Show 6:50—News 7:00—CBC Presents 8:00—This Is the Blues 9:00—News, Masterworks 12:00—News, Jazz at Midnight 1:00—Sign Off Thursday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—Like Young 6:50—News 7:00—Ramblin' Round 8:40—Limelette Review 9:00—News, Masterworks 12:00—News, Jazz at Midnight Friday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—Music USA 6:00—Tempo 6:50—News 7:00—Jazz Special 9:00—News, Nite Owl (Music by telephone request: KI 7-7862) 12:00—News, Nite Owl, Part II 2:00—News, Sign Off Saturday 3 pm—Rock and Roll Memory Time 5:00—Jazz Spotlite	7:00—Departures In Music (new classical releases) 8:15—Basketball (vs. Union) 9:30—(following basketball) News, Nite Owl (Music by telephone request: KI 7-7862) 12:00—News, Nite Owl, Part II 2:00—News, Sign Off Sunday 5 pm—Folkside 6:50—News 7:00—Music at MIT 8:00—WTBS Presents 9:00—News, Classroom Concert 12:00—News, Jazz at Midnight 1:00—Sign Off Monday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—Music USA 6:00—Tempo 6:50—News 7:00—Jazz Special 9:00—News, Nite Owl (Music by telephone request: KI 7-7862) 12:00—News, Nite Owl, Part II 2:00—News, Sign Off Tuesday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—Music USA 6:00—Tempo 6:50—News 7:00—Jazz Special 9:00—News, Nite Owl (Music by telephone request: KI 7-7862) 12:00—News, Nite Owl, Part II 2:00—News, Sign Off Wednesday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—Music USA 6:00—Tempo 6:50—News 7:00—Jazz Special 9:00—News, Nite Owl (Music by telephone request: KI 7-7862) 12:00—News, Nite Owl, Part II 2:00—News, Sign Off Thursday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—Music USA 6:00—Tempo 6:50—News 7:00—Jazz Special 9:00—News, Nite Owl (Music by telephone request: KI 7-7862) 12:00—News, Nite Owl, Part II 2:00—News, Sign Off Friday 8 am—Rise and Shine, Part I 9:00—News, Rise and Shine, Part II 9:45—Sign Off 5 pm—Music USA 6:00—Tempo 6:50—News 7:00—Jazz Special 9:00—News, Nite Owl (Music by telephone request: KI 7-7862) 12:00—News, Nite Owl, Part II 2:00—News, Sign Off Saturday 3 pm—Rock and Roll Memory Time 5:00—Jazz Spotlite
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music at mit...

Concert Band Presents Winter Concert In Kresge

By G. A. Zaritzky

The MIT Concert Band, conducted by John Corley, presented a Winter Concert last Saturday night in Kresge Auditorium. The program of four modern works was challenging, since it both demanded and revealed the myriad of musical effects possible in a symphonic band, much in the manner of a long virtuoso piece. In Saturday's performance the band met this challenge squarely, but with mixed results.

The opening "Symphonic March Op. 80" by Alexander Tcherepnin suffered from two faults recurring throughout the concert: bad intonation (especially in the brass) and imprecise tempo (woodwinds). These were especially evident at the start of the piece, and the resulting lack of precision detracted from the briskness of the march.

The second piece, "Symphony for Winds and Percussion," by Thomas Beversdorf, was the major work of the concert. In four intricate and very difficult movements, it spans almost the entire duce a striking musical portrait. The performance was remarkable in both its variety of color and its control of the different rhythmic lines. The percussionists deserves special praise for its precision and clarity both as an accompanying element and, in the rondo (third movement), as a solo group. The brass in the second and the woodwinds in the third movement occasionally blended poorly, but all sections are to be complimented for achieving, at one time or another, a fine coloring of tone. And, although the performance lacked the fine control such a piece requires, the band revealed a mature approach to the work in its grasp of the thematic material in the two sonata-allegro movements

MIT CONCERT BAND, John Corley, conductor; A Winter Concert, December 8, 1962.
PROGRAM
Symphonic March, Op. 80 Alexander Tcherepnin
Symphony (No. III) for Winds and Percussion (1954) Thomas Beversdorf
Concerto Grosso (1958) Pete Seeger
Symphony No. III for Band (1958) Vittorio Giannini

I—Allegro
II—Adagio
III—Allegretto
IV—Allegro con Moto

(I and IV) and parts of the second movement.

After the intermission, a "chamber band" and a "concertino" of four brass players (Searle Crate, Richard Bair, Roland Dupont, and James Hadden) performed Pete Seeger's "Concerto Grosso." This piece, in three movements, is structured in the style of Bach and Handel, but uses modern harmonies. The first movement, a gay alternation between soli and ripiendo, was not together and suffered from poor pitch, thereby losing some of its gaiety. However, in the second, a set of four commentaries by the soloists on a theme, the control of the group improved. The last two commentaries were especially well played. A pleasant blending of all voices in the third movement into a gay allegro concluded the piece.

Vittorio Giannini's "Symphony No. III for Band" closed the program in a performance that displayed, at last, both fine control and unity. The articulation of the sweet-sounding first movement was very good. The trio of the third movement was not quite in tune, but the scherzo theme, strikingly presented by the saxophone, was pleasingly developed. And the last movement, with its three well-contrasted themes, drew out the full, rich, secure sound of the tutti band in a flourishing close.

Dave Brubeck Quartet Will Play In Kresge Friday, January 11

The Dave Brubeck Quartet will play in Kresge on Friday, January 11, 1963. The program is being sponsored jointly by the Class of '64 and the Class of '65. Tickets will go on sale in the lobby of Building 10 on Monday,

December 17. Regular ticket prices will be \$2.50 and \$3.00, but the Juniors and Sophomores will receive a reduction of \$.25 per ticket. Only two tickets however, per junior and sophomore will be offered at the reduced rate.

The reduced rate will also be offered to any groups of any class if there are more than 30 in the party.

Chorus To Present Christmas Concert

The annual Concert of Christmas Music by the New England Conservatory Chorus will be given December 13 at 8:30 in Jordan Hall. They will be accompanied by the Conservatory Orchestra.

The program includes "Magnificat" by the New England composer, Alan Hovhaness. Also included will be J. S. Bach's "Cantata 140," Hugo Distler's "Wachet Auf," and Charpentier's "Messe de Minuit pour Noel."

BSO Concert

Friday, Dec. 14, 2:15; Saturday, Dec. 15, 8:30; Symphony Hall; Richard Burgin conducting: Fine, Notturmo for Strings and Harp; Messiaen, "L'Ascension," Four Symphonic Meditations; Prokofiev, Suite from the Ballet, "Chout" ("Buffoon"), Op. 21; Hindemith, Symphony, "Die Harmonie der Welt."

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SF Society Smoker To Host Writer Pohl

Frederik Pohl will be guest speaker at the annual smoker of the MIT Science Fiction Society December 14 at 5:00 in the Hayden Library Lounge.

Mr. Pohl is the author and co-author of many science fiction novels and short stories. He has edited a series of anthologies and is currently the editor of two science fiction magazines Galaxy and If.

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opera...

Opera Group Presents 'Butterfly'

By Bernard Bilan

The Boston Opera Group, under the guidance of Sarah Caldwell, opened its fifth season with Puccini's "Madame Butterfly," Wednesday evening at the Harvard Square Theatre. With very few exceptions, the production merits the highest of accolades.

Wherever possible the cast was peopled with Japanese, a happy event which gave realism and conviction to the overall production. The stage designs by Ming Cho Lee were effective and beautiful with a delicacy which was truly Japanese. The singing was intelligent with enough emotion to be poignant without being melodramatic. The singing also benefited the acting, which was better than in most opera.

The opera was sung in English rather than the original Italian. This fact requires some comment, because opera in English is a matter still subject to controversy. The translation by Ruth and Thomas Martin was poetic and intelligent with none of the insipid foolishness which has marred other operatic productions in English. Indeed, dramatically speak-

MADAME BUTTERFLY, by Giacomo Puccini. Presented by the Opera Group of Boston; in English; translation by Ruth and Thomas Martin. Directed by Sarah Caldwell; sets and lighting by Ming Cho Lee; costumes by Patricia Zipprodt. At the Harvard Square Theatre for one performance, Dec. 5.

The Principals

Pinkerton Thomas Haywood
Madame Butterfly Taeko Tsukamoto
Suzuki Umeko Shindo
Sharpless John Reardon
The Opera Group will present two more productions this season: "Barber of Seville" (in Italian), Feb. 1 and 3, and "Faust" (in French), Feb. 15 and 23.

ing, the opera benefits from the vernacular because the audience is drawn into the action of the production. The result of it all is that the opera becomes a dramatic as well as aesthetic experience.

Tacko Tsukamoto as Cio-Cio sang with clarity and careful enunciation and with all the subtlety of Japanese emotion. And the fact that she is Japanese gave her role the conviction which no Western singer could hope to duplicate. However, her vocal quality suffered somewhat from a lack of lung power, which accounted for her occasionally being overpowered by the orchestra.

In the role of Pinkerton, Thom-

as Hayward sings with a full resonant tenor, and abundant power. This part, that of the cad of the opera, is considered a difficult one to interpret. Hayward portrays Pinkerton as a sincere but misguided soul who has brought about a situation he is unable to resolve. His interpretation makes as much of the part as can be done, and Hayward does it with conviction.

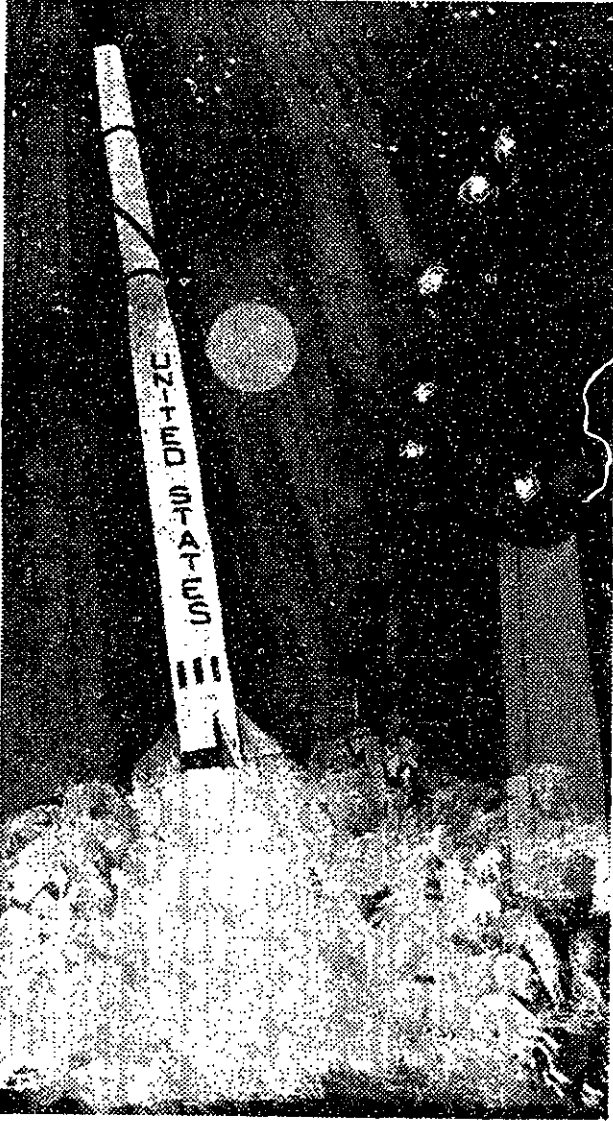
The part of Sharpless is generally colorless and one does not expect much of it. John Reardon, however, gave the role unexpected quality with purposeful acting and fine full singing.

Umeko Shindo as Suzuki and Leonard Potter as the Bonze also contributed with good singing and dramatic acting. Other members of the cast include Corrine Farberman as Kate Pinkerton and James Billings as Goro.

The orchestral accompaniment deserves very special praise. Drawn mostly from the Boston Symphony Orchestra, the players responded superbly to Miss Caldwell's skillful direction. The result of her conducting was heard in the disciplined yet exciting playing of the orchestra. The only criticism here is that the volume of the accompaniment occasionally drowned out the singers.

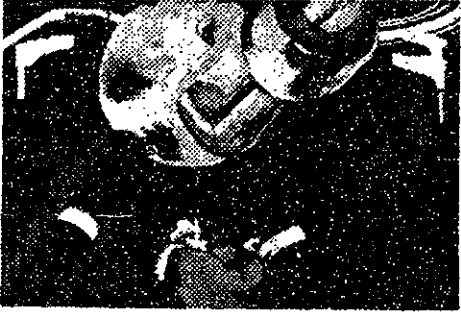
As has been mentioned Ming Cho Lee's sets for Madam Butterfly are about the most exceptional that this opera has seen. The emphasis was not on artificial prettiness but on an authentic atmosphere which complemented the drama of acting.

Boston opera-goers have come to expect a high degree of perfection from Sarah Caldwell's productions and they have seldom been disappointed. Given sufficient funds, there is every reason to believe that the Boston Opera Group will go on to even greater and more lavish productions. The group hopes to meet this year's expenses through a fund raising campaign which has a goal of \$100,000.00.




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THIS WEEK

New England Conservatory— Instrumental Music, Dec. 12, 8:30; Jordan Hall, free; Sonatas by Corelli, Di-Bonaventura, Hindemith.
Annual Christmas Concert— New England Conservatory, Dec. 13, 8:30 p.m., Jordan Hall, free; Conservatory Chorus in J. S. Bach's Cantata 140, Hugo Distler's "Wachet Auf," Hovhannes "Magnificat," Charpentier's Messe de Minuit pour Noel; reception afterwards in Brown Hall, refreshments, Christmas carols.
Christmas Vesper Concert— Wellesley College Choir, Houghton Memorial Chapel, Wellesley College, Dec. 18, 8:00.

Handel's "Messiah"— MIT Choral Society, Cambridge Festival Orchestra, Dec. 15, 8:30; Dec. 16, 3:00; tickets \$1.50.
Sanford Margolis— Pianist, Dec. 16, 3:00, Gardner Museum, works of Beethoven, Schumann, Chopin.
Opera in Concert Form— Dec. 18, 8:30, Jordan Hall.

Lectures
X. J. Kennedy— MIT Poetry Series, Dec. 13, 8:00, Hayden Library Lounge.
Frederik Fohl— MIT Science Fiction Dec. 14, 5:00, Hayden Library Lounge.
Ayn Rand— "The Fascist New Frontier," Dec. 16, Ford Hall Forum, Jordan Hall, 8:00.

Theater and Movies
"The Matchmaker"— MIT Dramashop, Dec. 13-15, 8:30, Kresge Little Theatre; tickets \$1.50.
"Love for Love"— Loeb Drama Center, Dec. 12-15, 8:30; tickets \$1.50, except Fri., Sat., \$2.00.
"A Found on Demand"— Loeb Experimental Theatre, Dec. 13-15, free.
"The Private Life of the Master Race"— Boston University Theatre, Dec. 13-15, 8:30; box office, KE 6-9121.
LSC Classic Series— "The White Sheik," Dec. 14, Room 10-250, 6:30, 9:00.

9:00, Frederico Fellini's satire on the Italian "Fumetti," a super-romantic type of magazine. This film is the story of a bride who deserts her husband on their wedding day to meet the White Sheik, hero of the Fumetti. (Italy)

LSC Entertainment Series— "The Dink at the Top of the Stairs," Dec. 15, Room 10-250, 5:15, 7:30, 9:45; in color; Robert Preston, Eve Arden, Angela Lansbury, Shirley Knight. From William Inge's play about family life in Oklahoma in the early 1920's, involving a husband who is unhappy over his wife's frigidity and her over-attachment to her children, and the conflicts which arise through his interest in a neighboring widow.

Medieval Mystery Plays— Houghton Memorial Chapel, Wellesley College, 8:15 a.m., Dec. 15.
"The Teenagers"— MIT Arab Club, English subtitles, Dec. 16, 4:00, Kresge Little Theatre; \$1.00.

NEXT WEEK

Sonia Klosek— Pianist, Dec. 19, Jordan Hall, 8:30; Bach's "Chromatic Fantasy and Fugue," Chopin's "Ballade in A Flat Major" and "Ballade in F Minor, Villa Lobos' "Choros," Ravel's "Alborada del Gracioso," Mozart's "Sonata for Two Pianos in D Major," with Ann Dorsam.

Veronica Tyler— Soprano, Dec. 23, 3:00, Gardner Museum.

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Handel's 'Messiah' At MIT

Handel's "Messiah" will be presented in the original version December 15 and 16 by the MIT Choral Society. The December 15 performance will be at 8:30, the December 16 at 3.

The Cambridge Festival Orchestra will play the orchestration written by Handel the "Messiah's" first performance in Dublin in 1741. This score uses organ, strings, two oboes, two trumpets, harpsicord and timpany. Later versions, arranged by Mozart as well as many later composers, added modern instruments and inflated the original to grand dimensions.

Kennedy To Read Poetry To MIT

Poet X. J. Kennedy, author of "Nude Descending a Staircase," will present readings of selections from his works tomorrow night at 8 in the Library Lounge.

The program is sponsored by the Humanities Department. A winner of the Lamont Prize, Mr. Kennedy is Professor of Poetry at the Women's College of the University of North Carolina.

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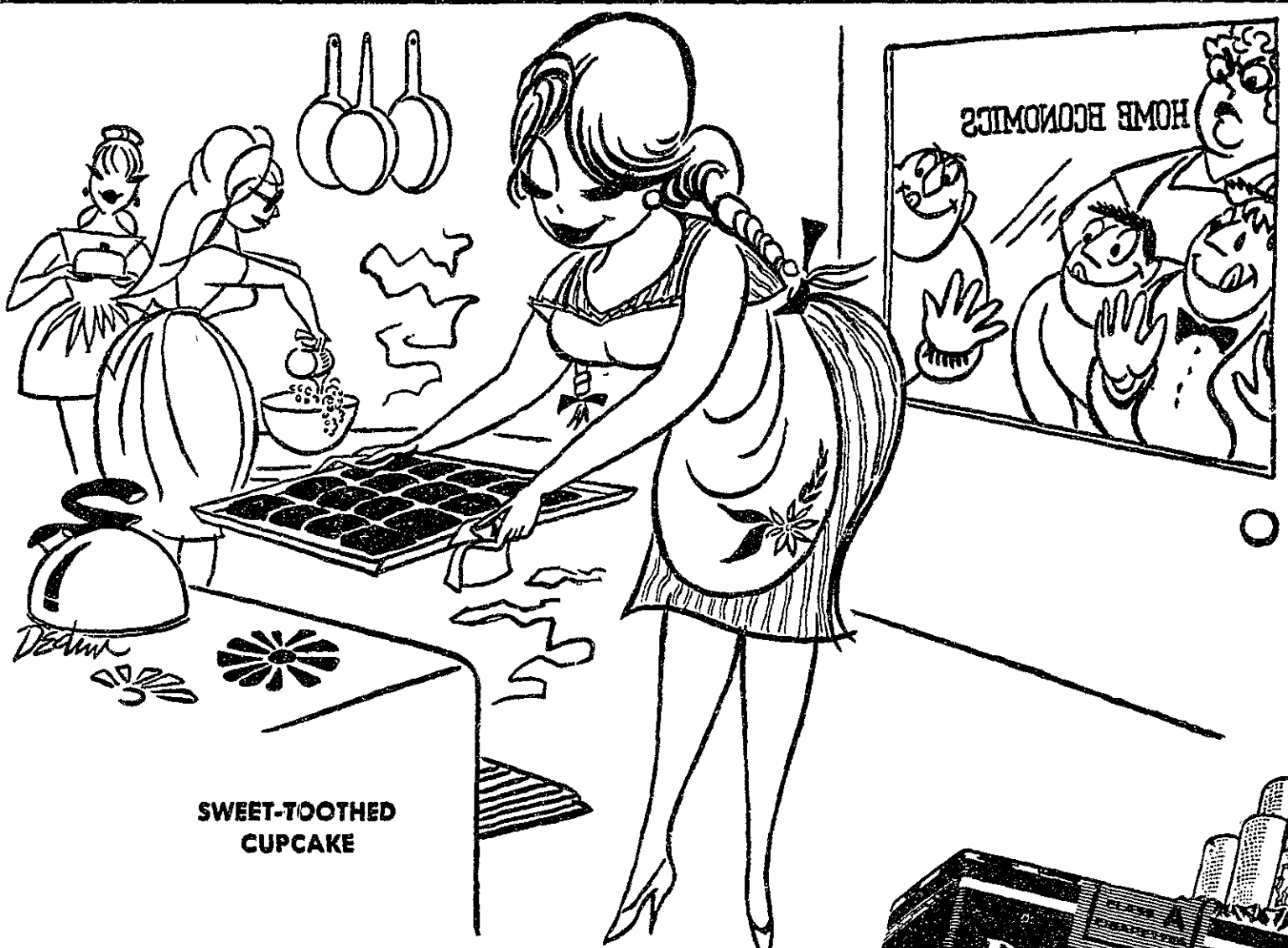
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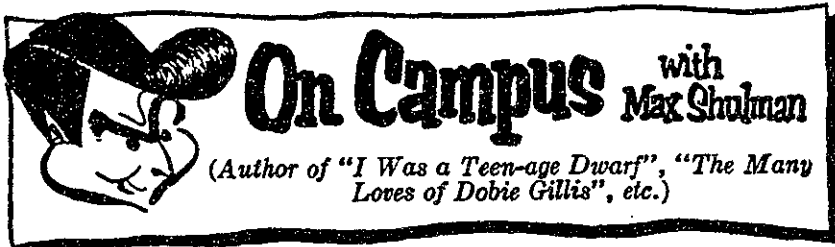
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Technology Dames Discuss Food Preparation and A Holiday Dance

Not all Technology Dames can solve a pulley problem; but then not very many Techmen could follow the hints offered to their wives at the last Tech Dames meeting. At this meeting, December 5, Mary Catherine McGrady of the Cambridge Gas Company spoke on "Fancy Food Preparation."

Most of the discussion involved suggestions of special effects in holiday foods or of shortcuts in well-known recipes. In addition, the Dames received some very appetizing recipes for salads, canapes, and deserts, which may be delighting many a Techman before the season is over.

Also mentioned at the meeting was another nonculinary amusement: the Technology Dames' holiday dance, held on December 7.



HAPPY TALK

As we all know, conversation is terribly important on a date. When lulls in the conversation run longer than an hour or two, one's partner is inclined to grow logy—even sullen. But occasionally one finds it difficult to keep the talk going, especially when one is having a first date with one. What, then, does one do?

If one is wise, one follows the brilliant example of Harlow Thurlow.

Harlow Thurlow prepares. That is his simple secret. When Harlow is going to take out a new girl, he makes sure in advance that the conversation will not languish. Before the date, he goes to the library and reads all 24 volumes of the encyclopedia and transcribes their contents on his cuffs. Thus he makes sure that no matter what his date's interests are, he will have ample material to keep the conversation alive.

Take, for example, Harlow's first date with Priscilla de Gasser, a fine, strapping, blue-eyed broth of a girl, lavishly constructed and rosy as the dawn.

Harlow was, as always, prepared when he called for Priscilla, and, as always, he did not start to converse immediately. First he took her to dinner because, as everyone knows, it is useless to try to make conversation with an unfed coed. Her attention span is negligible. Also, her stomach rumbles so loud it is difficult to make yourself heard.



"Wash your cuffs and be my love!"

So he took her to a fine steak house where he stoked her with gobbets of Black Angus and mounds of French fries and thickets of escarole and battalions of petit fours. Then, at last, dinner was over and the waiter brought two finger bowls.

"I hope you enjoyed your dinner, my dear," said Harlow, dipping into his finger bowl.

"Oh, it was grandy-dandy!" said Priscilla. "Now let's go someplace for ribs."

"Later, perhaps," said Harlow. "But right now, I thought we might have a conversation."

"Oh, goody, goody, two-shoes!" cried Priscilla. "I been looking everywhere for a boy who can carry on a intelligent conversation."

"Your search is ended, madam," said Harlow, and pulled back his sleeves and looked at his cuffs to pick a likely topic to start the conversation.

Oh, woe! Oh, lackaday! Those cuffs on which Harlow had painstakingly transcribed so many facts—those cuffs on which he had noted such diverse and fascinating information—those cuffs, I say, were nothing now but a big, blue blur! For Harlow—poor Harlow!—splashing around in the finger bowl, had gotten his cuffs wet and the ink had run and not one word was legible! And Harlow—poor Harlow!—looked upon his cuffs and broke out in a night sweat and fell dumb.

"I must say," said Priscilla after several silent hours, "that you are a very dull fellow. I'm leaving."

With that she flounced away and poor Harlow was too crushed to protest. Sadly he sat and sadly lit a cigarette.

All of a sudden Priscilla came rushing back. "Was that," she asked, "a Marlboro you just lit?"

"Yes," said Harlow.

"Then you are not a dull fellow," she cried, and sprang into his lap. "You are bright! Anybody is bright to smoke such a perfect joy of a cigarette as Marlboro which is just chock full of yummy flavor, which has a Selectate filter which comes in a soft pack that is really soft, and a Flip-Top Box that really flips, and which can be bought wherever cigarettes are sold in all fifty states and Duluth . . . Harlow, tiger, wash your cuffs and be my love."

"Okay," said Harlow, and did, and was.

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The makers of Marlboro cigarettes, who print this column at hideous expense throughout the school year, are very happy for Harlow—and for all the rest of you who have discovered the pleasures of Marlboro.

MIT's Eta Kappa Nu Elects Sixty Students

Fifteen seniors and forty-five juniors have been elected to Beta Theta Chapter of Eta Kappa Nu. They were initiated at a banquet at the Union Oyster House on December 8. The speaker was Professor Robert A. Smith, newly appointed Director of the Center for Materials Science and Engineering.

Eta Kappa Nu is the national electrical engineering honor society. Election to the society is based upon distinguished scholarship, activities, and exemplary character.

Senior pledges: Martin Eisenberg, Pedro Francisco Engel, Thomas P. Gerity, Jr., Keith D. Gilbert, Kenneth Grace, Jr., Harold W. Ingels, Frank J. Kotasek, Terrence A. Lenahan, Robert F. Lercari, Matthew M. Lind, John D. McCarron, George Q. McDowell, William Mohr, Gerald C. O'Leary, Hans R. Zapp.

Juniors: Karl A. Achterkirchen, Edward L. Aron, Jr., Thomas H. Baker, Mark E. Barmon, Barry A. Blesser, Leonard G. Buckle, Jerry D. Burchfiel, Richard A. Carpenter, Lawrence Castro, Thomas B. Cheek, Stephen R. Chinn, Norman R. Cohler, Charles C. Counselman, III, Theodore J. Cruise, Alf Debs, George C. Ebner, John G. Endriz, David S. Evans, Robert B. Eyestone, James W. Giffin, Lansing Hatfield, Michael S. Hirsch, Richard R. Kurth, Larry L. Langdon, Victor Liang, Fred L. Lucioni, Paul G. McMullin, William E. Morton, John T. Moter, Leung Cho Ng, Richard J. Nixon, William F. O'Halloran, Jr., Kenneth J. Olshansky, Neil Orloff, Lawrence R. Rabiner, Mark S. Radwin, James A. Rome, Arthur H. M. Ross, Wilfred J. Schwartz, Jr., Lawrence Seligman, Joshua J. Singer, Maxim G. Smith, John J. Vencill, Bernard Yaged, Jr., Hans R. Zapp, J. Steven Zucker.

Airlines To Unite, Expand

Seminar Hears NAC Head

The prospects for a substantial increase in airline profits were discussed Thursday at a Flight Transportation Seminar sponsored by Course XVI. Speaking on "Airline and Airline Equipment Financing," F. F. Robinson, President of National Aviation Corporation, predicted that 1963 would be a year of consolidation and expansion for the major commercial trunk lines.

There has been very little improvement in airline profits since 1955. Mr. Robinson attributed the large losses taken by the airline industry to the fact that the growth in the number of jets in service has far outstripped the growth in passengers. Whereas in 1959, when the jets were first introduced, the load factors were over 90% in 1962 many flights have been scheduled with load factors less than 50%. The year 1961 witnessed the largest losses in the industry's history. According to Robinson, the major carriers have survived because they have been able to cover their depreciation flow through loans from insurance companies, on

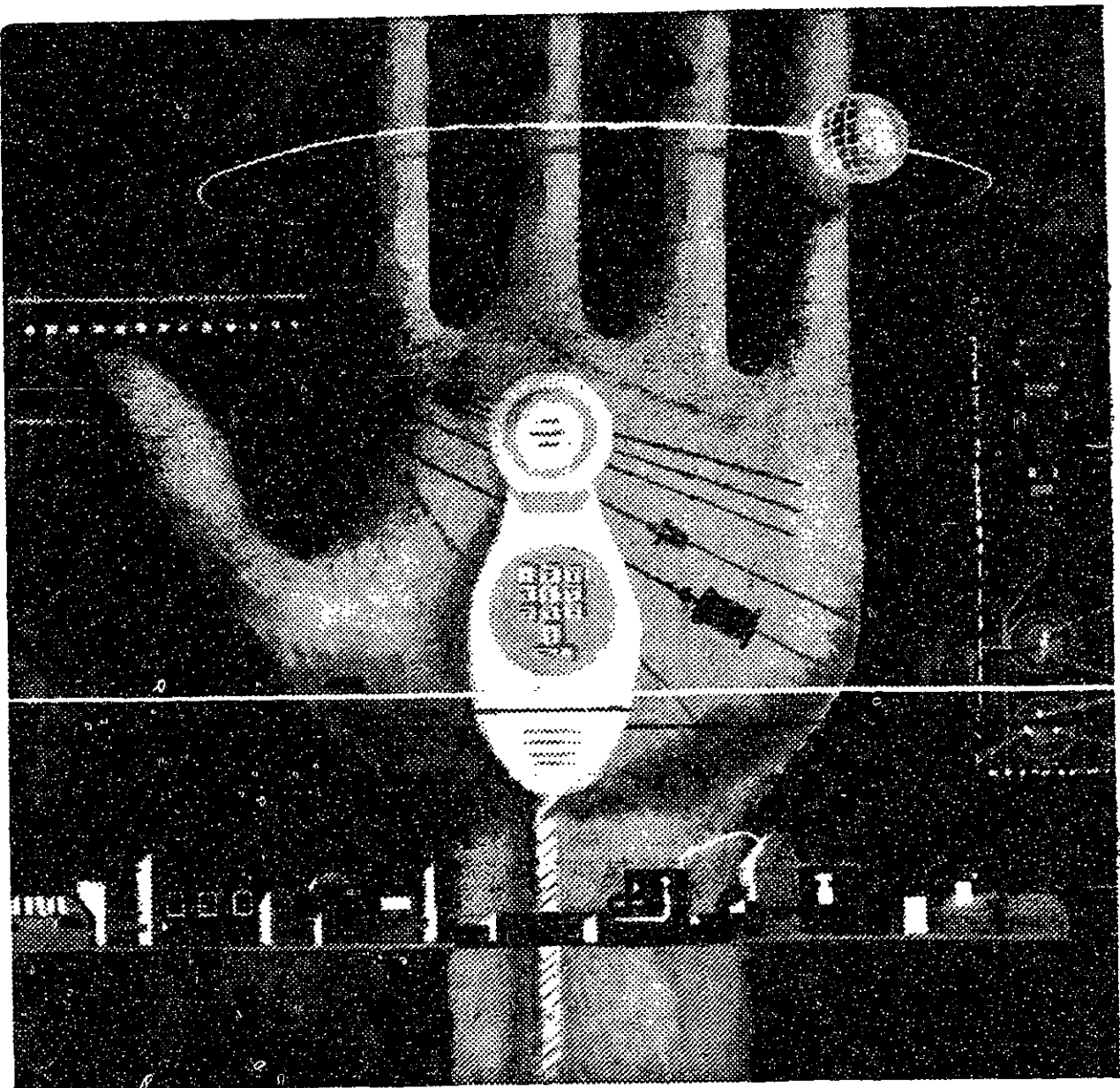
which the airlines are paying interest rates as high as 6 percent.

Robinson stated that the chances for airlines to lower their debts will increase as they learn to use their equipment more efficiently.

The airlines are planning few large expenditures toward the growth of their carrier fleet at this time. Robinson sees the possibility of airline common stock becoming a prestige stock as good once the number of passengers has grown to the present level of available passenger capacity.

For 1963, he predicts a 5 to 6% increase in passengers, miles logged. Robinson does not expect a dramatic increase in fares in the near future as a means for raising capital.

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To perfect the work now in progress and launch many new communications products, projects, procedures, and processes not yet in the mind of man—we need quality-minded

engineers. If you feel that you can meet our standards, consider the opportunities offered by working with our company. In a few short years, you will be Western Electric.

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Club Pledges \$172,000 For Frosh Aid

The MIT Boston Stein Club has contributed or pledged \$172,000 for freshman scholarships at the Institute. A suggestion that the Stein Club establish a fund for scholarships was made in 1953 by the late Dr. Karl T. Compton, then Chairman of the MIT Corporation. By 1958, the club had raised \$58,000. Since that time, an additional \$114,000 has been contributed or pledged. At a dinner at the Faculty of the MIT Corporation. By 1958, Club, the Stein Club announced the club had raised \$58,000. Since a new goal of \$200,000 for scholar- that time, an additional \$114,000 ships. has been contributed or pledged.

Books Collected For Asian Students

A book drive for the Asia and authors as Dickens, Heming- Foundation's "Books for Asian way, Balzac, Goethe, and Plato. Students" program began on These books will be donated to campus December 11. various colleges and universities in Asia. Needed are university, college, and secondary school texts in The drive this year is sponsor- good condition, published after ed by the Tech chapter of De- 1945, and works by such stand- Molay.

College World

Kofyars Love To Drink Beer, But They Don't Practice Voodoo

Have you ever heard of the Kofyars? The Kofyars are a tribe of Northern Nigeria. No, they're not famous for their practice of Voodoo — they just drink beer. Bob Netting, a University of Chicago grad student, recently returned from Africa, where he made an 18-month anthropological study of the Kofyars. In fact, he has just presented to a conference of the American Anthropological Association a paper entitled, "A West African Beer Complex." Netting claims that the Kofyar society is centered around the drinking, talking, and thinking about beer. Beer is given as a reward to a warrior who kills an enemy or brings back dangerous game from a hunt. It is also exchanged publicly by lovers in a sanctioned extra-marital relation-

ship. Beer is also the center of cultural interests and activities. In the society, Netting said, beer is not only given to those who perform important social functions, but is also withheld as punishment from those who break the tribe's customs. "The most severe punishment meted out to a man by his community is exclusion from all occasions for beer drinking. It is the equivalent of social ostracism," he said. Netting also learned that beer determines the calendar system. He said, "the only words in Kofyar language for short periods of time are based on the brewing cycle. A week of six days is called 'shimwos' (the time necessary for brewing the beer). Each of the six days is named in terms of the days of the beer brewing period."

Beer has also become part of the community's mythology. Whereas the European folktales put gold at the end of the rainbow and Ali Baba finds jewels in a cave, the Kofyar story tells of a crownbird opening a magic ancestral stone and finding a jar of beer inside. Netting lived with the Kofyars for eighteen months in 1961 and 1962 in order to obtain information for his doctorate at the University of Chicago. The beer aspect of the society was only incidental to his studies. His thesis is concerned primarily with the relationship between the national environment and the economy of a social group.

Conrad Must Go

A refugee from Africa, Conrad is being evicted from his abode at Cornell's Delta Tau Delta fraternity. It seems that Cornell officials, local authorities, and Conrad just don't see eye-to-eye. Conrad's fraternity brothers, however, are protesting the eviction order. They like Conrad. They claim he's a "friendly fellow" — just like one of the family. In fact, he's privileged with a room of his own, right next to the downstairs living room. They say Conrad must like the fraternity, too. After all, in his short stay Conrad has grown from a wee 2½ feet to a manly 7½ feet. But University officials refuse to be pacified! They insist that Conrad must go! The fraternity house, they say, is no place for a pet — especially for a boa constrictor. And, besides, the neighbors are starting to complain.

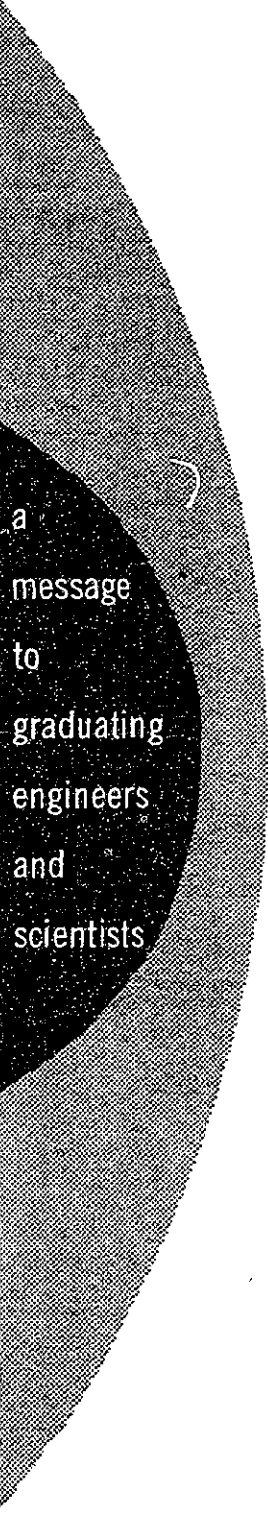
A New Home For Conrad?

Perhaps a comfortable home for Conrad could be found at the University of Michigan's experimental Biological Station. Out of the multitude of environments available at the station, at least one should be just right for Conrad. Among the environments are forestlands — both deciduous and coniferous — lakes, streams, bogs, dunes, lowlands, rich uplands, and sandy uplands. This variety will support a multitude of species of plants and animals, making it ideal for extended research on land and water habitation.

Summer is the most active season for the 20-man faculty at the station. At this time about 120 students are working on research projects. The station's facilities are open throughout the year but are rarely used in the winter because the housing is not designed for protection from the sub-zero temperatures.

Facilities for the 8,900-acre Biological Station include 143 buildings — 100 of these being residential, 30 general service, and 13 laboratories for closely controlled ecological studies. A post office, general store, health service, library, and other such buildings make the station self-sufficient.

The Biological Station is located near Pellston, Michigan, 270 miles north of the University of Michigan's main campus at Ann Arbor.



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Pratt & Whitney Aircraft

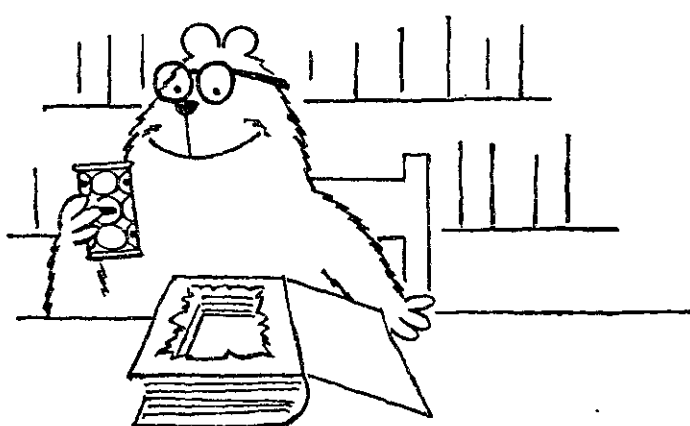
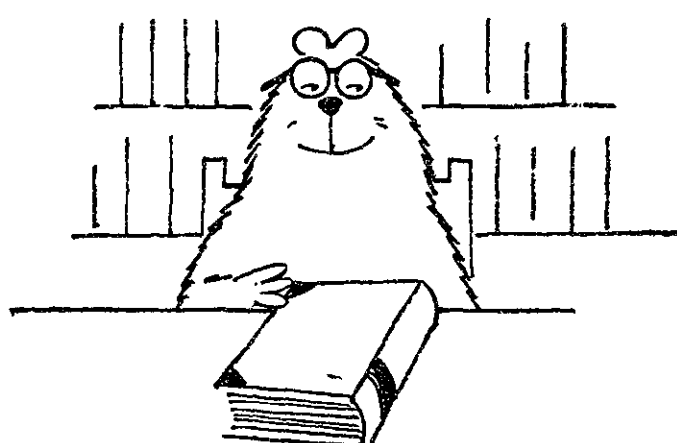
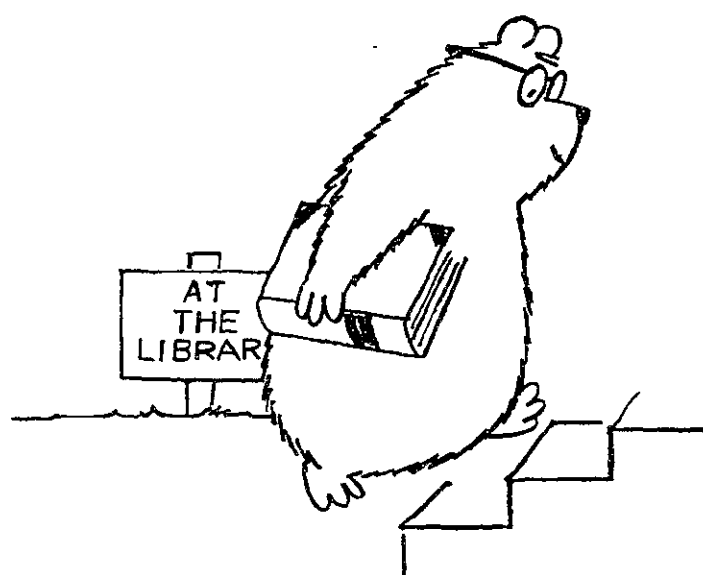
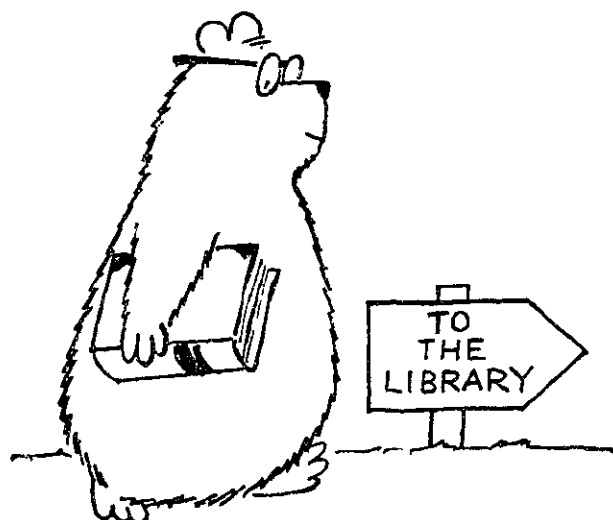
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Trackmen, Wrestlers Win

By Ed Steinberg
MIT's freshman track team vanquished Boston College, 72-37 in its opening meet Saturday. In other frosh action during the week, the wrestling team downed Connecticut, the swimmers split 2 matches, and the basketball team lost two games. The fencing match with Harvard, originally scheduled for last Saturday, was postponed until February 6.

Brown Wins Two Events

The outstanding individual performance of the track meet was turned in by Summer Brown, who won both the mile and two mile runs.

This week's track meets are with Harvard tonight and Northeastern Saturday afternoon.

Wednesday Coach Tom Murray's mermen outclassed the University of Massachusetts by a 70-24 score. Dick Breinlinger was the individual star, winning the 50 yard free style event in 25.1 seconds, and the 100 yard free style race in 0:58.4.

Relay Team Sweeps

Tech's relay teams copped both 200 yard relay races. Joe Smullen earned 94.35 points to win the div-

ing event. Other individual winners for the Engineers were Doug McQueen, Jay Goodman, Roger Rasmussen, and Dave Pepperberg.

Saturday the natators were humbled by Exeter, 84-15. McQueen, who won the 200 yard free style race, earned the only first for Tech.

Tonight the swimmers meet Boston Latin School in the Alumni Pool, and Saturday they travel south to face Rensselaer.

Acting Captain Hal Hultgren (123 lbs.), Harry Moser (167), and Dick Stresau (177) pinned their opponents to lead the grapplers to an overwhelming 31-5 win over Connecticut Saturday.

Maryland Whiteman (137) and Jim Edgerton (unlimited) won by decisions, as the squad captured its second win against one setback. Tim Connelly (130) and Tom Hall (147) were credited with wins by default.

Grapplers Meet Coast Guard

Tonight the matmen oppose the Coast Guard Academy and Saturday afternoon they meet Williams in a home match.

Wednesday the frosh basketball team lost to Huntington School, 76-71. In the first half the Tech offense was spearheaded by John Mazola and Stu Nemser, who finished with 19 and 14 points respectively. John Flick's accurate jump shots kept the Engineers in contention in the second half. Flick wound up with 18 points.

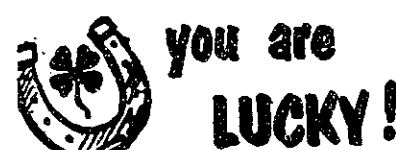
Saturday Coach Arnold Singal's men were downed by a speedy Wesleyan quintet 72-58. Mazola was once again high scorer with 19 points.

Union furnishes the opposition for the Cagers in Rockwell Cage Saturday night.

Squash Team Opens Season

The squash team begins its season today with a match against Harvard. Saturday the racqueteers face Army at West Point.

The hockey team has two home games this week. Tomorrow afternoon the skaters battle Browne and Nichols School, and Saturday they oppose Noble and Greenough School.

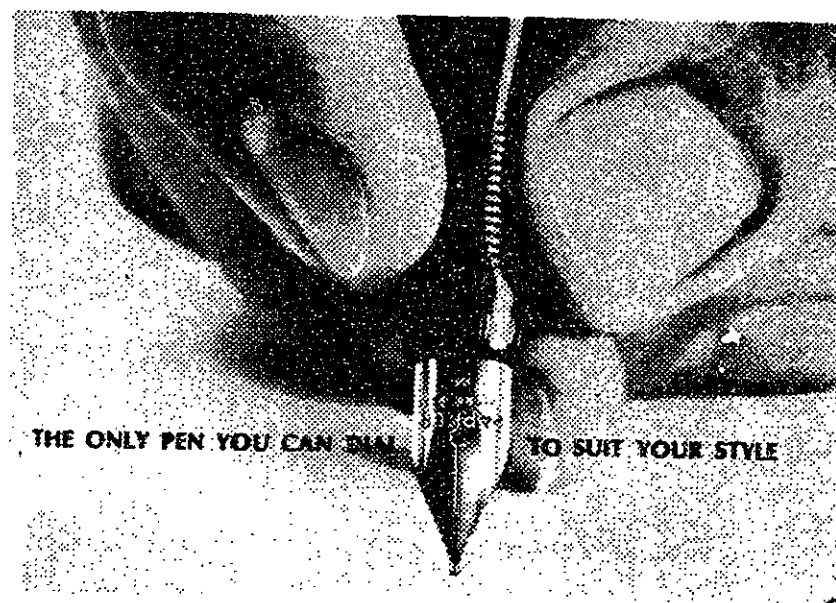


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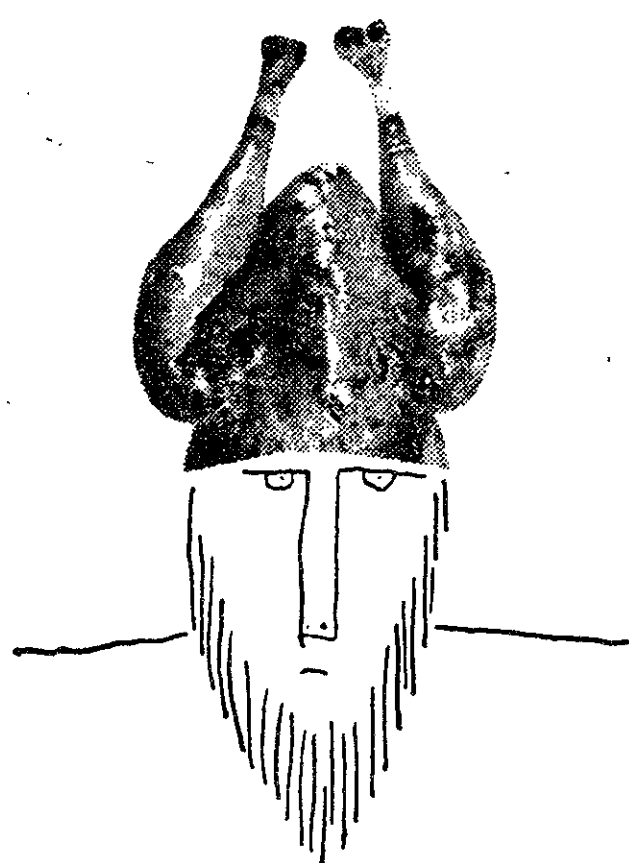
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9.01

Introduction To Sports

Managing

One of the largest and most rewarding of all MIT activities is the MIT Athletic Association. The MIT offers a great opportunity to those who desire executive experience and responsibility and a chance to perform a vital service to MIT athletics, especially in the field of Intercollegiate Freshman and Varsity Managing. Managing of Intercollegiate sports forms one of the largest divisions of the Athletic Association, and in this field there are many openings, especially for freshmen and sophomores.

Managerial Work Demanding

The duties and responsibilities of the manager are many fold. To the team, he must be the jack-of-all-trades. At practices and at games he works hard and long hours, often arriving before and leaving long after the regular team members. On away trips, he is trusted as the man who will have the buses here and there on time, who will make sure the team members get enough to eat and a bed to sleep in, who will make sure all the equipment is always brought along, and who will in general make sure the trip runs smoothly, and that the coach and team members have few worries about the administration of the trip. Each sport has different requirements, and problems, and each taxes its manager's ingenuity differently, but they all have two things in common: a lot

of hard and demanding work, and the satisfaction of a job well done and of helping an MIT athletic team to achieve its peak performance.

Prepares Budget

But there is another side of the coin as well. The money for the trips and such must be budgeted for and appropriated by the Institute long before the season starts. Every manager is responsible for the drawing up of the team's budget, in February, for the following year, from which the total Intercollegiate budget for that year is determined. This year the total appropriation came to \$52,000, spread over eighteen sports.

This places quite a responsibility on each of the eighteen head managers for drawing up and administering these budgets, and requires a degree of executive and managerial ability from the manager found in few other student offices and indeed, in few athletic manager positions at other colleges. These managerial skills need not be inherent; like any other skills they can be learned, and many managers in the past have done so. It takes talent to be a successful manager, but that talent is what we are looking for and trying to develop.

Takes Part in Administration

Outside of his team interests, the manager has a hand in overall A.A. administration. Head man-

agers, along with team captains, the Intramural Council, etc., have voting powers in all A.A. meetings. The Varsity Council, presided over by the Varsity Vice-President, is made up of all managers, of whom head and first-assistant managers have voting powers. The Varsity Council holds overall responsibility for the management of intercollegiate athletics. This council elects the Varsity Vice-President, serves as a general forum for managers and helps to set up the standards of athletic management and manager training.

The job of manager offers many chances for reward and advancement. Managers receive numerals, letters, and athletic points on the same basis as other team members. The varsity Vice-President, Recorder, Publicity Manager, and often times the A.A. President rise from the managerial ranks.

Many Openings In Spring Sports

At present there are eighteen intercollegiate teams. All of the Winter and Spring Sports need assistant varsity, and freshman managers. There are immediate openings in Baseball, 2 varsity assistants, 2 freshmen; Basketball, 1 freshman; Crew, 2 vars. asst., 6 freshmen; Fencing, 1 vars. asst., 1 freshman; Golf, 2 varsity asst., 1 freshman; Hockey, 2 varsity asst., 2 freshman; Lacrosse, 2 freshmen; Squash, 1 vars. asst., 1 freshman; Swimming, 2 vars. asst., 2 freshmen; Tennis, 1 vars. asst., 1 freshman; Track, 1 vars. asst. 2 freshmen; and Wrestling, 1 vars. asst. 1 freshman. All interested applicants should contact the coach or captain at the Dupont Athletic Center.

Have a real cigarette—have a CAMEL

How They Did

Basketball

Brandeis 27 — MIT 25
Wesleyan 69 — MIT 63
Huntington 76 — MIT (F) 71
Wesleyan (F) 72 — MIT (F) 58

Hockey

MIT 11 — WPI 2
U Mass. 6 — MIT 3

Squash

Army 9 — MIT 0
Penn 9 — MIT 0

Swimming

MIT 51 — U Mass. 44
MIT 56 — Columbia 39
MIT (F) 70 — U Mass. (F) 24
Exeter (F) 84 — MIT (F) 15

Track

BC 68 — MIT 45
MIT (F) 72 — BC (F) 37

Wrestling

Harvard 17 — MIT 9
MIT 31 — U.Conn. 2
MIT (F) 31 — Connecticut (F) 5
Harvard (F) 32 — MIT (F) 0

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Wrestlers Smash UConn, 31-2

MIT's Varsity Wrestling Team extended its season record to 2-1 with Saturday's victory over the University of Connecticut 31-2. The lone defeat came at the hands of Harvard a week ago Tuesday.

Armen Gabrielian, '63, 123-pounder, pinned Junker in 2 min. and nine seconds of the third period. Alan Rogol, '63, ran out of time and could only come up with a tie against Dunham.

James Evans '63, still undefeated this season, pinned Strog in one minute and thirty seven seconds, the fastest pin of the match. Terry Chatwin '63, also undefeated this season, pinned Lugus in 2 min. and thirty two seconds of the third period.

Bob Thomas, '65, wrestling in the 157 pound class, pinned Abrahamson in one minute and thirty eight seconds of the third period.

Tom Gerrity '63, wrestling one weight division above his regular position, crushed Dietrich 14-1, almost pinning him several times.



Tom Gerrity just misses pin in Saturday's match with U Conn. Gerrity won his match by decision 14-1, to aid the Engineers in their 31-2 victory.

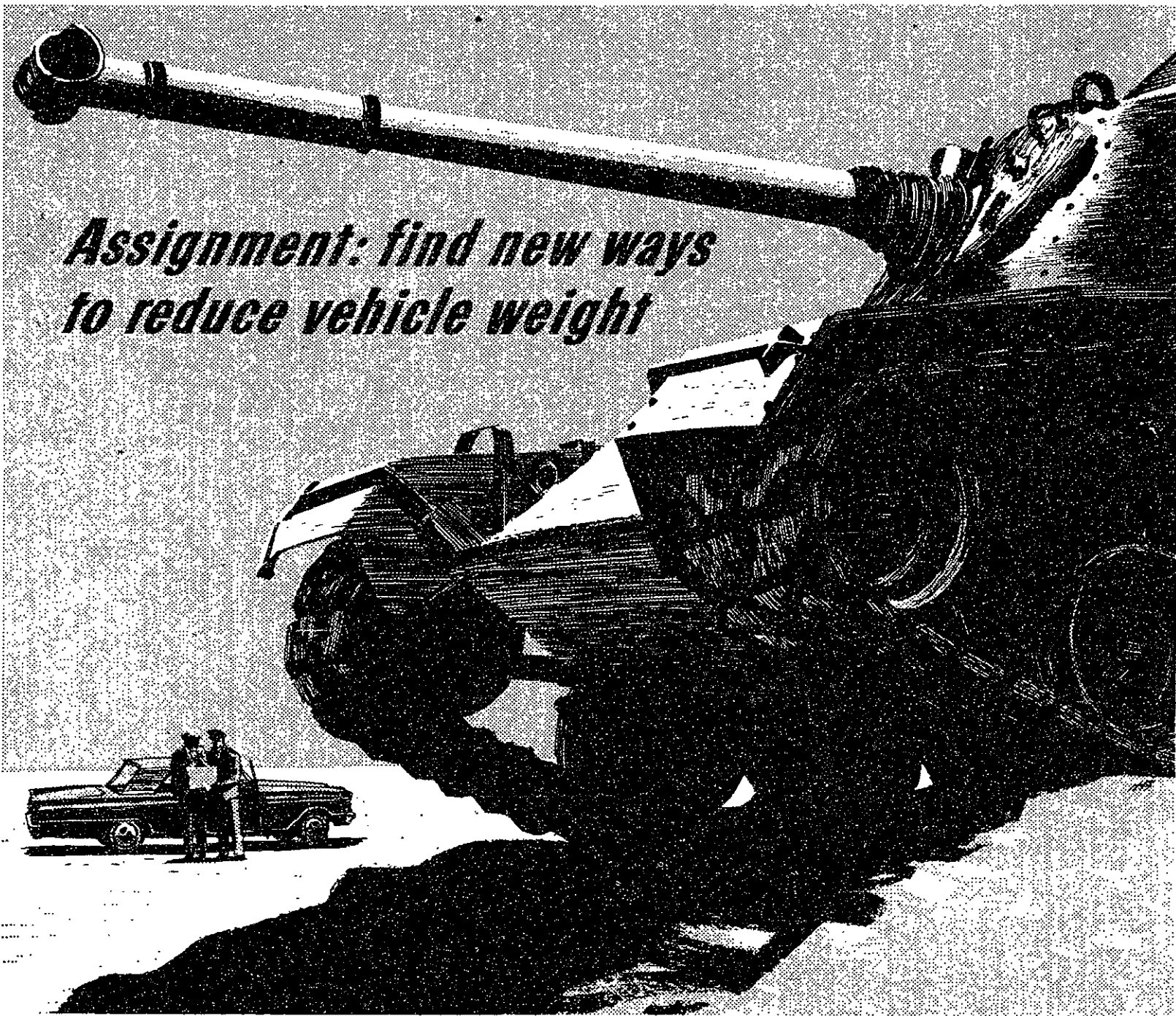
Bob Wells, '65, outwrestled Havis 7-2 John Butler '65, Heavyweight, overpowered his opponent Poe, for a 3-1 victory.

The final score was four pins for 20 points, three decisions for 9 points, and a decision draw for 2 points, a total of 31, to 2 for UConn. The next match is tonight away at Coast Guard, always a tough match, this one should prove especially good with several members of the team holding personal

rivalries against the "Coasties". Next Saturday the team is home again for an afternoon match against Williams at two o'clock in the Rockwell Cage.

Last Tuesday the MIT Matman came to grief at the hands of a greatly improved Harvard team 17-9. The Engineers' nine points were scored by Co Captains Jim Evans, '63, and Tom Gerrity, '63, and Terry Chatwin, '63, who all won by decisive scores to give each an undefeated season, and to put them well on their way to repeating their performances in the New Englands last year.

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5 IM Ice Squads Maintain Win Skeins; Lead League Races

Theta Chi, NRSA, Phi Mu Delta, Chi Phi, and Sigma Chi maintained undefeated records this week to hold first places in their respective IM Hockey leagues.

Theta Chi, led by the scoring of Dean Smith '64 and Bill Jessiman '63, swept past Sigma Phi Epsilon 7-0 and Senior House 4-2. Smith has five goals and an assist, to put him second in the A league scoring race behind Norm Dorf '63 of Phi Gamma Delta.

In an exciting contest for the lead in the B league, NRSA downed Lambda Chi Alpha 2-1 in sudden-death overtime. Steve Croopnick '64 tied the score for NRSA with 1½ minutes left in regulation time. With 39 seconds left in the overtime period, Allen Clark '63 put the puck by Lambda Chi goalie Pete Svahn for the win.

Phi Mu Delta took the lead in the C league by edging Sigma Alpha Epsilon 2-1 on goals by O'Connell and Sternberg. Chi Phi took a commanding lead in the "D" league by trouncing Alpha Tau Omega 15-1. Warner Blyer '65, four goals and two assists, Neil Hull '63, five goals and one assist, and Jan Treilman, three goals and one assist led the way to the highest scoring game this year. Blyer now has seven goals, four assists, for eleven points, tops in I.M. Hockey.

A League			
	W	L	Pts.
Theta Chi	2	0	4
Phi Gamma Delta A	1	0	2
Delta Psi	0	1	0
Sigma Phi Epsilon	0	1	0
Senior House	0	1	0
B League			
	W	L	Pts.
NRSA	2	0	4
Lambda Chi Alpha	0	1	0
Grad House	0	1	0
Theta Delta Chi	0	0	0
Baker House	0	0	0
C League			
	W	L	Pts.
Phi Mu Delta	2	0	4
Sigma Alpha Epsilon	1	1	2
Pi Lambda Phi	1	1	2
Kappa Sigma	0	1	0
Burton House	0	1	0
D League			
	W	L	Pts.
Chi Phi	2	0	4
Alpha Tau Omega	0	1	0
Phi Kappa Theta	0	1	0
Tau Epsilon Phi	0	0	0
E League			
	W	L	Pts.
Sigma Chi	2	0	4
Phi Kappa Sigma	1	1	2
East Campus	1	1	2
Alpha Epsilon Pi	0	2	0
Phi Gamma Delta B	0	0	0

A League Results			
Theta Chi 7, Sigma Phi Epsilon 0			
Theta Chi 4, Senior House 2			
B League			
NRSA 3, Grad House 2			
NRSA 2, Lambda Chi Alpha 1			
C League			
Phi Mu Delta 2, Sigma Alpha Epsilon 1			
Sigma Alpha Epsilon 5, Pi Lambda Phi 1			
D League			
Chi Phi 15, Alpha Tau Omega 1			
E League			
Sigma Chi 5, Alpha Epsilon Pi 0			
East Campus 5, Phi Kappa Sigma 2			

NOTICE

In recognition of the lateness of the Christmas mails and the vacation period, as a service to our members, December 1st bills, usually due by the end of the month, will be eligible for Patronage Refund if paid on or before January 10th, 1963.



Playoffs Set For January

IM Basketball Season Closes Next Week

By Terry Vanderwerff
Regular action in the IM basketball program winds up next week, with action in one league already concluded. As the season closed for the International League, Phi Sigma Kappa and Pi Lambda Phi "A" tied for first with 4-1 records. The Sammys lost their chance for a three-way tie by falling to Baker House "B," 26-24. The playoffs are scheduled for after Christmas vacation.

DTD, DU To Meet In Last Game
The only league assured of an undisputed champion is the American Association. Right now Delta Tau Delta and Delta Upsilon are tied for first with 4-0 records, but they play each other next

Tuesday night in the final league game. The game appears to be a toss-up since both squads have topped all their opponents by similar scores.

In the American League five teams are still in the running with only two games remaining to be played. There is a possibility of a five-way tie for first at the end of the regular season. Last week Lambda Chi "A" upset Senior House "A," 45-43, and Grad House "A," squeaked by Alpha Tau Omega "A," 36-35.

Falender, Ferrari Lead
The National League has Baker "A" and Grad Management "A" tied for first place with only one game remaining. Last week Burton "A" knocked Grad House "B" from the running by downing the grad students 52-36. Both the league leaders won by landslides, Baker "A" crushing Theta Chi "A," 70-34, and Grad Management "A" trouncing the Fijis, 61-26. In the Baker game, Jim Falender '65 and Leonard Ferrari '63 led the winners by dunking 27 and 20 points, respectively.

Pacific Coast League	
Political Science	5-0
Delta Kappa Epsilon	3-1
Grad Management B	3-2
Phi Mu Delta	3-2
Chinese Student Club	4-3
Tau Epsilon Phi	1-2
Beta Theta Pi	1-5
Nuclear Engineering	0-7
American Association	
Delta Tau Delta	4-0
Delta Upsilon	4-0
Burton House B	2-2
Student House	2-2
Lambda Chi B	0-4
Phi Kappa Sigma	0-4
International League	
Phi Sigma Kappa	4-1
Pi Lambda Phi A	4-1
Baker House B	3-2
Sigma Alpha Mu	3-2
Zeta Beta Tau	1-4
Phi Kappa Theta	0-5
Eastern League	
Senior House B	4-0
Theta Delta Chi	4-0
Kappa Sigma	4-2
Sigma Phi Epsilon B	2-2
Burton House C	1-3
Chi Phi	1-3
Alpha Tau Omega B	0-4
Southern League	
Baker House C	4-0
Burton Fine 5th	4-1
Grad Dining Staff	4-1
Non-Resident Students	2-2
Theta Chi B	1-3
Burton Dining Staff	0-4
Pi Lambda Phi B	0-4
Western League	
Club 414	4-0
Hayden 2nd	3-1
The Chokers	2-1
Baker D	2-1
Senior House C	1-3
The Avants	0-3
Bemis 4th	0-3

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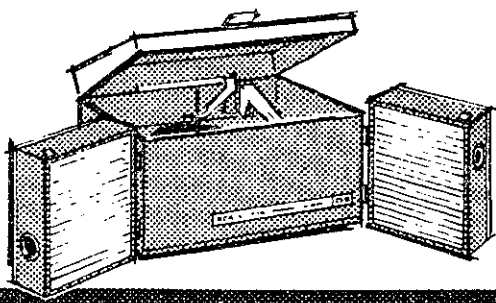
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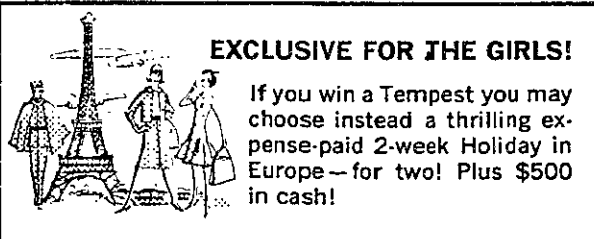


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Sig Ep Takes Relays; Wins IM Swim Meet As Phi Delts Take 2nd

Sigma Phi Epsilon earned the Intramural Swimming Championship on Sunday, December 2, compiling a total of 47 points to outscore defending champion Phi Delta Theta. Although Sig Ep won no individual events, their superior depth proved invaluable as they took first place in both medley and the freestyle relay.

Outstanding individual performances were turned in by Barry Litofsky and Gary Mitchell, of Grad House, and by Dave Hoover '63 of Phi Delta Theta. Litofsky won the 100-yd. freestyle in 59.2 sec. Mitchell churned through a 50 yd. butterfly in the qualifying heats in 27.8 sec. Hoover won the 50-yd. backstroke in 31.2 sec.

The Southern League is a toss-up yet with a possibility of a three-way tie between Baker House "C," Burton Fine 5th, and Grad Dining Staff. Last week all three won, Burton by a forfeit, Baker trouncing Theta Chi "B," 52-20, and the Grads crushing Pi Lambda Phi "B," 45-19. George Hadley '65 scored 18 for the conquerors in the Baker game.

Intramural Basketball Standings	
American League	
Paradise Cafe	5-0
Grad House A	4-1
Lambda Chi A	3-2
Senior House A	3-2
Sigma Alpha Epsilon	3-2
Alpha Tau Omega A	1-4
Sigma Chi	1-4
Phi Delta Theta	0-5
National League	
Baker A	5-1
Grad Management A	5-1
Grad House B	3-3
Phi Gamma Delta	3-3
Sigma Phi Epsilon A	3-3
Alpha Epsilon Pi	2-4
Theta Chi A	2-4
Burton A	1-5

Team Standings	
1. Sigma Phi Epsilon	47
2. Phi Delta Theta	38
3. Graduate House	32
4. Burton House	28
5. Theta Chi	20.5
6. Lambda Chi Alpha	16
Event Results	
200 yd. medley relay: Sig Ep, 2:11.4	
50 yd. freestyle: Spreng, Phi Delta	
Theta, 26.2 sec.	
50 yd. breaststroke: Kossuth, Burton.	
34.8 sec.	
50 yd. butterfly: Mitchell, Grad	
House, 28.0 sec.	
50 yd. backstroke: Hoover, Phi Del-	
ta, 31.2 sec.	
Diving: Bremberg, Phi Delta, 94.6	

BULLETIN NO. 15

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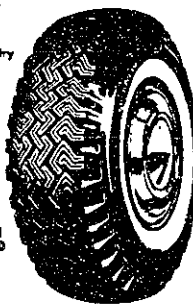
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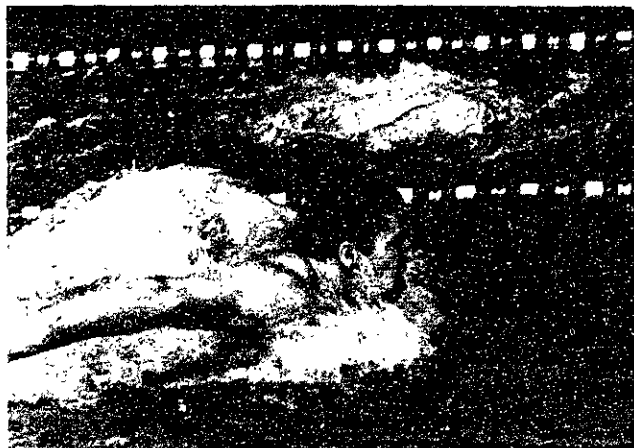
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Mermen Score 51-44 Win Over UMass; Overcome Columbia Swimmers 56-34



Bill Brody '63 (far lane) and Ron Matlin '63 finish 1, 2 respectively in 200 yard butterfly in Saturday's home meet with Columbia. Tech won meet 56-39.

—Photo by Joe Barron

Tech's swimming team took two meets last week in varsity action with the University of Massachusetts (51-44) and Columbia University (56-39).

In the U Mass contest the Engineers captured only four first places, but managed to bring in the seconds and thirds to tie the meet before the last event. In this final event, the 400 yard freestyle relay, Tech's mermen showed their depth by winning in 3:43.4. The relay consisted of Joe Schrade ('63), Bob Bachrach ('64), Dick St. Peters ('65), and Arthur Blanchard ('65). The medley relay of Frank Mechura ('65), Charlie Einolf ('63), Bill Brody ('65), and Bachrach won with a time of 4:21.1. Brody won the 200 yard butterfly in 2:38.4, and Einolf won the 200 yard breaststroke in 2:38.1.

Saturday, the varsity easily downed Columbia at the Alumni Pool. The medley relay was taken in 4:21.8 by Mechura, Einolf, Brody, and Bachrach.



Steve Colburn '63 performs back dive in Saturday's swim meet. Colburn went on to take first place in this event and contribute to Tech's 56-34 win. (Photo by Joe Barron)

In the 200 yard freestyle St. Peters placed a close second, but returned later in the 500 yard freestyle to win a close race in 5:53.8. This establishes a new varsity and pool record for this event. In the 50 yard freestyle Schrade pulled ahead to win in 24.8. Steve Colburn ('63) performed well on the board which brought him a first in the 1 meter diving.

In the 200 yard individual medley Eric Jensen ('64) placed second in another close race. In the 200 yard butterfly Brody won in 2:34.2 while Ron Matlin ('63) placed second. Tim Skoat ('63) pushed out ahead in the 200 yard backstroke to win in 2:27.7.

Wisner Stars In Tech Win

Iceemen Trounce WPI 11-2 After 6-3 Loss To UMass

MIT's hockey team split two games last week rolling over Worcester Polytechnic Institute 11-2, while falling to the University of Massachusetts, 6-3.

At U-Mass the engineers' goals were scored by Don Wisner, Bill Vachon and Jim Holcroft. The team played a strong defensive in the first period not allowing UMass to score. Then in the second period UMass managed to push two goals across to tie the score at 2-2. MIT suffered a defensive lapse in the third period, and UMass scored three times in the first five minutes to go ahead 5-3. Jim Holcroft found the mark on a set-up from linemates Bill Vachon and Don Wisner, but came back to score another and Tech couldn't make up the deficit. Ben Coach Martin seems to have settled on the line with Wisner centering and Vachon and Holcroft on the wings, backed up by Ted Cohn centering with wings Weikel and Steve Colten. The defense is handled by Denny, Blouin and Bob Pilon.

Wisner Scores Five

In the WPI game Wisner just couldn't be stopped. He scored four goals in the first period and one in the second. Mike Denny scored three, Ted Cohn two and Ross Faneuf one. The WPI goalie

made 40 stops allowing the 11 Vachon and Don Wisner. UMass goals. Thus far, in the season, the MIT goalie Joe Kirk, allowed 7 goals making 34 stops. Dave Cohn, the other goalie, played the third period against WPI allowing one goal and making five stops.

Tech Meets UNH

The Iceemen met the University of New Hampshire team last night.

Sophomore Don Wisner has lived up to every expectation this season. After scoring one goal against UMass, he went ahead and scored five more against WPI. He is now leading in that department. Denny picked up two assists against UMass and picked up three more against WPI. This gives him a total of 7 points. One more, he leads the team in the scoring column. Denny also leads the squad in penalties picking up two against UMass and one against WPI.

Trackmen Bow To BC In Opener 68-45; 3 Records Shattered

In Saturday's season opener, the Tech cindermen fell to a record setting Boston College squad by the score of 68 to 45.

Flink, Reinhardt take 50 yd. Dash

In the 50 yd. dash, Jim Flink '64 and Dennis Reinhardt '65 placed first and second, respectively, with a winning time of 5.6 seconds. Gilvey of Boston College won the 600 yd. run in 1:14.5, setting a new Rockwell Cage record, as Mike Parker '64 finished third. Tom Goddard '63, team captain, placed third in the 1000 yd. run and second in the 1 mile run, with Dick McMillin '65 finishing third. Chuck Sigwart '64 finished third in the two mile, won by Rawson of Boston College in 9:38.0, a new record in Rockwell Cage.

Tech Sweeps Hurdles

In the hurdling events, the Engineers swept all three places. In the 45 yd. low hurdles the order was Jim Fink, '64; Al Tervalon '65, and Forest Green '63, and in the high hurdles Tervalon, Terry Dorshner '65, and Ken Morash '65 finished first, second, and third. Boston College took the mile relay in 3:36.0, its third Cage record of the day.

In the field events, MIT entered at least one person in each event. Dave Carrier '65 was second in the broad jump and third in the high jump, Jim Kotanchik '64 was third in the 35 lb. weight throw, Bill Remsen '64 was second in the shot put, while in the pole vault, Gary Lukis '64 and Mike Keener '65 placed second and third, respectively.

Cages Drop Thrillers To Brandeis, Wesleyan

By J. M. Blew

MIT's varsity basketball team dropped its second and third decisions of the campaign in road games last week. Brandeis' last-second shot stopped Tech by the unusually low score of 27-25. Wesleyan University's powerful quintet wore down the Tech front line and won 69-63. The improving cagers tackled Bowdoin last night in a game that was expected to produce MIT's first win.

Brandeis Freezes For 10 Minutes

Last Wednesday's game at Brandeis started out in normal fashion as the Brandeis squad built a 3-2 advantage in the first 3 minutes. Regaining possession, the Brandeis guards brought the ball up to face Tech's tough 1-2-2 zone defense. They then proceeded to work the ball around from 16:45 to 6:30 of the first half. The freeze broke on a traveling violation and was never again fully established, as Tech set up a press whenever the ball was in the side court area.

Even so, with MIT playing its familiar set offense, and Brandeis attempting to find easy shots, the halftime score was only 6-5, Tech leading. MIT took charge in the early moments of the second half and gradually moved ahead. For a time it seemed the Engineers would need just "one more basket" to break the game wide open. To their credit, Brandeis hung on and stuck to their pressing zone defense and unique offensive strategy.

Brandeis Move Into Lead

The break came with 4 minutes left and MIT ahead 23-15. MIT's three guards, seniors Jeff Paarz and Kent Groninger and soph Bob Grady, suddenly couldn't get the ball up court against the press, and when they did, they threw it away on poor passes. Brandeis reeled off 9 straight points to take a 24-23 lead.

Grady's pass on a drive with 30 seconds left went astray, and Brandeis came up court. Junior center Bill Eagleson brought down the ball carrier for his fifth personal. The official awarded a two-shot intentional foul to Brandeis' Bill Goldberg, who converted only the first. Tech had the ball, 15 seconds to go, trailing 25-23. Bob Grady tied the score on a pass from soph George McQuilken, who replaced Eagleson.

Last-Second Tally Decides

With 7 seconds on the clock, Brandeis took a time out. Tech elected to press the ball in the backcourt on defense, hoping to use up the time before Brandeis could get off a shot. However, a Brandeis substitute forward Tom Heller gathered in a deflected pass at half court, raced to the foul circle, and sank his jump shot at the buzzer.

Eagleson scored 8 and Grady 6 to lead the Tech offense. Brandeis Steve Smith collected 8 for the winners. Brandeis is now 1-2, having previously lost decisions to Rhode Island and Northeastern.

Tech Leads Wesleyan at Halftime

Saturday night the Engineers traveled to Middletown, Conn. for the Wesleyan contest. Both teams played fine basketball in the first half, but Tech's first line appeared to be slightly stronger. Eagleson scored 18 points and Grady 12 in the first half to lead Tech to a 36-32 halftime advantage.

The superior Wesleyan bench strength began to tell early in the second stanza. Wesleyan's Lou Dardani threw in 12 points in about 10 minutes of playing.

Wesleyan stormed into the lead to stay when their star center "Winky" Davenport (26 point average last year) got two quick buckets at the 13 minute mark. The home forces gradually moved ahead and led by as much as 10 points. MIT's desperation press was ineffective, and the outside shooting of all three guards was off the mark. Final score: W.U. 69-MIT 63.

Eagleson Scores 33

Coming off mediocre performances in the first two games, Bill Eagleson played perhaps his finest

est varsity game. Hitting on long jumpers, short ducks, and tap-ins, and converting 9 of 11 free throws, the "Eagle" poured in 33 points. This brings his season total to 59 points. In addition, the 6'5" center grabbed off 16 individual rebounds and held the high-scoring Davenport to just 8 points.

Junior Jack Moter and McQuilken shared the high-post duties, as the former fouled out early. Grady scored 14 points in this game to lead the backcourt contingent and brought his season total to 38 points.

These first three games have been lost by a total of 9 points, and MIT has led in each case at halftime. Wesleyan, still undefeated, had previously crushed Clark and Worcester Tech by over 30 points each.

Saturday night, Union College will invade the cage for an 8:15 engagement. Next Wednesday, in what will be one of the year's biggest Boston area games, Tech will face Northeastern Univ. in the cage at 8:15. Freshman games precede each varsity contest.

Sig Ep, Burton Lead IM Keglers

At the halfway mark in the intramural bowling season, Sigma Phi Epsilon A has a fairly comfortable hold on first place. Burton House A, led by the very consistent bowling of Homa Lee '65, is second followed closely by Baker House A.

Lee is just ahead of John Schatz '64 of Senior House and Jim Bochnowski '65 of Sigma Phi Epsilon in the contest for individual high average. All three have played a major role in the success of their teams thus far.

Highs for the season include a 593 individual series by Gary Palonen of Phi Sigma Kappa and a tremendous 1623 team series by Phi Delta Theta. John Schatz of Senior House has the high individual game at 230, and Sigma Alpha Epsilon last rolled the high team game of 572.

With four weeks remaining in the schedule, no position is sewn up, and competition both in the team standings and individual averages will be especially keen.

IM Bowling Standings

Team	Peterson Points
1. Sigma Phi Epsilon A	334.78
2. Baker House A	130.40
3. Senior House A	128.06
4. Senior House A	126.48
5. Sigma Alpha Epsilon A	125.52
6. Senior House B	124.46
7. Phi Sigma Kappa	124.14
8. Phi Delta Theta A	124.12
9. Zeta Beta Tau A	123.34
10. Paradise Cafe	120.62
11. Phi Gamma Delta	118.04
12. Graduate House B	117.76
13. Burton House C	116.88
14. Baker House B	114.52
15. Walker Dining Staff	112.44
16. Demolay A	112.00
17. Alpha Tau Omega A	110.96
18. Lambda Chi Alpha	109.60
19. Phi Delta Theta D	108.34
20. Sigma Phi Epsilon B	107.52
Averages	
1. Lee, Bur	184
2. Schatz, Sr. Hse	183
3. Bochnowski, SPE	182
4. Hedberg, Bak	176
5. Pulkonik, Par. Cafe	174
6. Landis, PDT	173
7. Schwarcz, Sr. Hse	172
8. Johnson, Bak	172
9. Souk, SAE	170
10. Palonen, PSK	170

Letter Sweater Day Dec. 14

The MIT Athletic Association has announced that Letter Sweaters Days is Friday, December 14. On this day, all athletes who have won letters are expected to wear their sweaters in order to publicize All Sports Day Saturday December 15.

On Deck

Today, December 12
Basketball (JV)—Chamberlayne Junior College, Home, 7:15 PM
Fencing (V) — Harvard, Home, 7:30 PM
Squash (V) — Harvard, Home, 7:00 PM
Squash (F) — Harvard, Away, 4:00 PM
Swimming (F) — Boston Latin School, Home, 7:00 PM
Indoor Track (V&F)—Harvard, Away, 6:45 PM
Wrestling (V&F)—Coast Guard, Away, 7:30 PM
Thursday, December 13
Hockey (F) — Browne & Nichols School, Home, 4:00 PM
Friday, December 14
Squash (V) — Princeton, Away 5:00 PM
Saturday, December 15

Basketball (V) — Union, Home, 8:15 PM
Basketball (F) — Union, Home, 6:30 PM
Fencing (V) — Brandeis, Away, 2:00 PM
Hockey (V) — Ft. Devens, Home, 7:00 PM
Hockey (F) — Noble & Greenough School, Home, 4:00 p.m.
Pistol — Coast Guard, Away
Squash (V) — Navy, Away, 1:15 PM
Squash (F) — Army, Away
Swimming (V & F) — R.P.I., Away, 2:00 PM
Indoor Track (V & F) — Northeastern, Home, 12:30 PM
Wrestling (V) — Williams, Home, 3:30 PM
Wrestling (F)—Williams, Home, 2:00 PM

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